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1984 ANNUAL REPORT

VIRGINIA DEPARTMENT OF LABOR AND INDUSTRY

1984 ANNUAL REPORT

CALENDAR YEAR ENDING DECEMBER 31, 1984

DEPARTMENT OF LABOR AND INDUSTRY

Eva S. Teig . . . . . Commissioner

Clayton P. Deane . . . . . Assistant Commissioner

Divisions of the Department

Division of Apprenticeship Training
Robert S. Baumgardner, Director

Division of Boiler and Pressure Vessel Safety
William E. Long, Jr., Chief

Virginia Occupational Safety and Health Program
Janice L. Thomas, Chief Administrator

Division of Construction Safety
Division of Industrial Safety
Elliott A. Scruggs, Director

Division of Voluntary Safety Compliance and Training
Michael Rodgers, Director

Division of Mines and Quarries
Harry D. Childress, Chief

Division of Research and Statistics
Texa B. Thurston, Director

Division of State Labor Law Administration
William K. Turpin, Director

COMMONWEALTH of VIRGINIA

Department of Labor and Industry
205 North Fourth Street
P. O. Box 12064
Richmond, Virginia 23241
(804) 786-2376

June 30, 1985

The Honorable Charles S. Robb
Governor of Virginia
Richmond, Virginia

Dear Governor Robb:

It is my pleasure to present to you the 1984 Annual Report of the Virginia Department of Labor and Industry. We are pleased to report that considerable progress has been made in areas over which the Department has jurisdiction. Perhaps most significant was the certification of the Department's Occupational Safety and Health Program by the Federal Occupational Safety and Health Administration (OSHA) on August 15, 1984. The Virginia Occupational Safety and Health (VOSH) program is now on line for final approval. Our goal is to achieve final approval by March of 1986.

Virginia's industry-wide injury rate continues to fall well below the national injury rate, even though increased business activity has resulted in more workplace accidents and injuries in the private sector during the past year.

To counteract this trend, initiatives in the area of safety were made on numerous fronts. A major statewide safety campaign, "Safety Makes Sense in Virginia," was launched. Officials from the Department of Labor and Industry visited many of the State's main industrial plants, factories, construction sites, and businesses with apprenticeship programs. We sought new ways in which a permanent partnership between the state and the private sector could be forged on behalf of a safer working environment for all Virginians.

An exciting and unique partnership was created in 1984 among state, local, and business interests. The Department of Labor and Industry, Fairfax County, and the Heavy Construction Contractors Association entered a tripartite agreement to sponsor a free trenching seminar to address improper trenching and unsafe practices at construction sites. More than three hundred students have graduated from this intensive Trench Safety seminar. The seminar has been videotaped for distribution throughout the state. The outstanding contribution that went into this noteworthy effort is an example of what can be accomplished when state and local agencies and the private sector join to address common concerns.

In 1984 our Division of Voluntary Safety Consultation and Training sponsored 279 free training sessions attended by more than 6,500 employers and employees. These sessions included a twelve-hour general industry course, a six-hour construction course, and various short sessions on topics such as back injuries, electrical hazards, forklift safety, split-rim wheel safety, and office safety. In addition, this Division maintains a film library of 190 films which were loaned 1,531 times to plants, businesses, and offices across the state. In response to a Bureau of Labor Statistics' survey showing that 65% of all construction accidents happened to employees with one year or less experience, the Division contacted all the vocational-technical facilities in the state and offered to conduct training on construction safety so that graduates of state vocational-technical schools would be better prepared in the area of safety.

Our Division of Occupational Safety conducted more than 2,000 safety inspections in 1984. These inspections resulted in a total of 3,876 violations being cited. The Division responded to 229 safety complaints from employees and investigated 21 safety discrimination cases. The Division of Occupational Safety also conducted a special emphasis program in the public sector. The high accident frequency and the incidence of several multi-piece wheel rim accidents triggered the inspection of county bus maintenance shops. It is our hope that this special emphasis program saved lives and prevented injuries.

The Department of Labor and Industry has worked to improve occupational safety by setting up a special committee of interested citizens to study safety in confined spaces. A similar group has been established to increase public awareness of occupational diseases. Finally, to enhance the VOSH program and improve our capability to serve the public, the General Assembly enacted legislation merging the safety and health portions of Virginia's Occupational Safety and Health program within the Department of Labor and Industry. This merger became effective July 1, 1985.

In our Division of Apprenticeship Training, for the fourteenth consecutive year, more than 1,000 apprentices were graduated from a registered apprentice program. At the end of 1983 more than 7,000 young Virginians were working as registered apprentices, of whom roughly 13% were female and 16% were minorities.

Our Division of Mines and Quarries became part of the newly created Department of Mines, Minerals, and Energy on January 1, 1985. Prior to this transfer, the Department of Labor and Industry applied for a special emphasis grant from the Mine Safety and Health Administration (MSHA). The Department of Labor and Industry asked for funding from MSHA for a comprehensive mine safety program concentrating on Virginia's 364 small underground coal mines. After reviewing the grant proposal, MSHA awarded Virginia $242,000. This was the largest grant awarded any one state. It is hoped that this unique and innovative program will bring to Southwest Virginia and indeed, the entire Commonwealth, a new and higher level of safety awareness.

Our Division of State Labor Administration continued to register solid success in the collection of unpaid wages on behalf of workers. This Division collected $526,792 in unpaid wages, an increase of 19% over last year.

Our Division of Boiler and Pressure Vessel Safety enforced the state standards which apply to the manufacture, assembly, maintenance, and repair of all boilers and pressure vessels in the Commonwealth. This Division is responsible for the inspections of the approximately 60,000 registered boiler and pressure vessels in the state. This Division issued approximately 23,000 certificates for active registered boilers and pressure vessels in 1984.

The Division of Research and Statistics admirably performed its duties of collecting, analyzing, and interpreting statistical data in the various economic fields. Of special note is the monthly Market Basket Report. The Market Basket lists the quantities of basic foods expected to be consumed by a family of four during a given week each month in Richmond, Northern Virginia, and the Norfolk-Virginia Beach-Portsmouth area. The Market Basket provides labor, management, consumer groups, and individuals with a readily accessible and understandable measure of how price changes affect their daily lives. The price data in this survey can be used as an economic indicator of the cost of living. Equally as important is the work done by this Division in compiling workplace accident rates and incidents as well as causes of occupational injuries and illnesses.

Finally, extensive internal reorganization efforts have been initiated within the Virginia Department of Labor and Industry. It is our hope that through these efforts an even higher level of service will be achieved in the future.

We are proud of the continuing public service this Department offers, and we remain dedicated to the preservation of the health, safety, and productivity of the citizens of the Commonwealth.

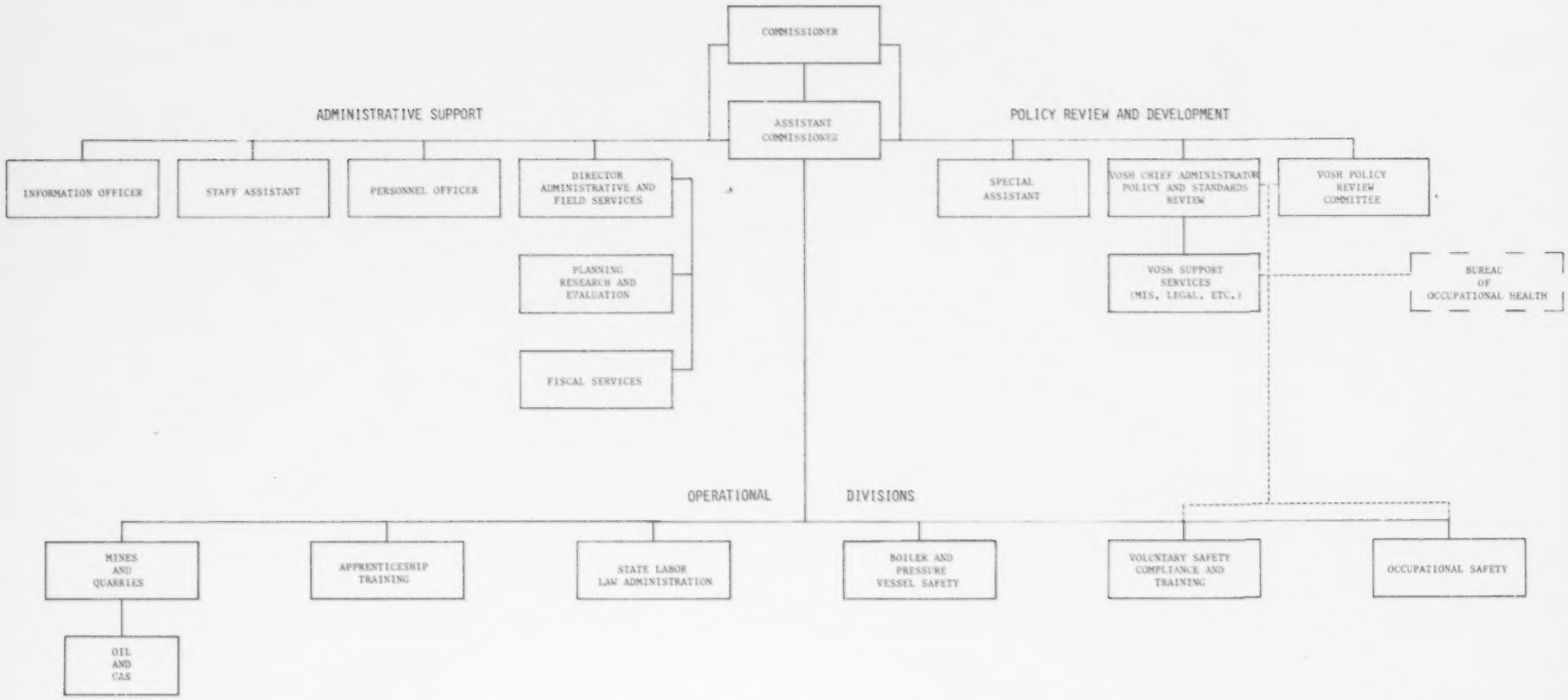
Sincerely,

Eva S. Teig

Eva S. Teig
Commissioner

EST/mcb

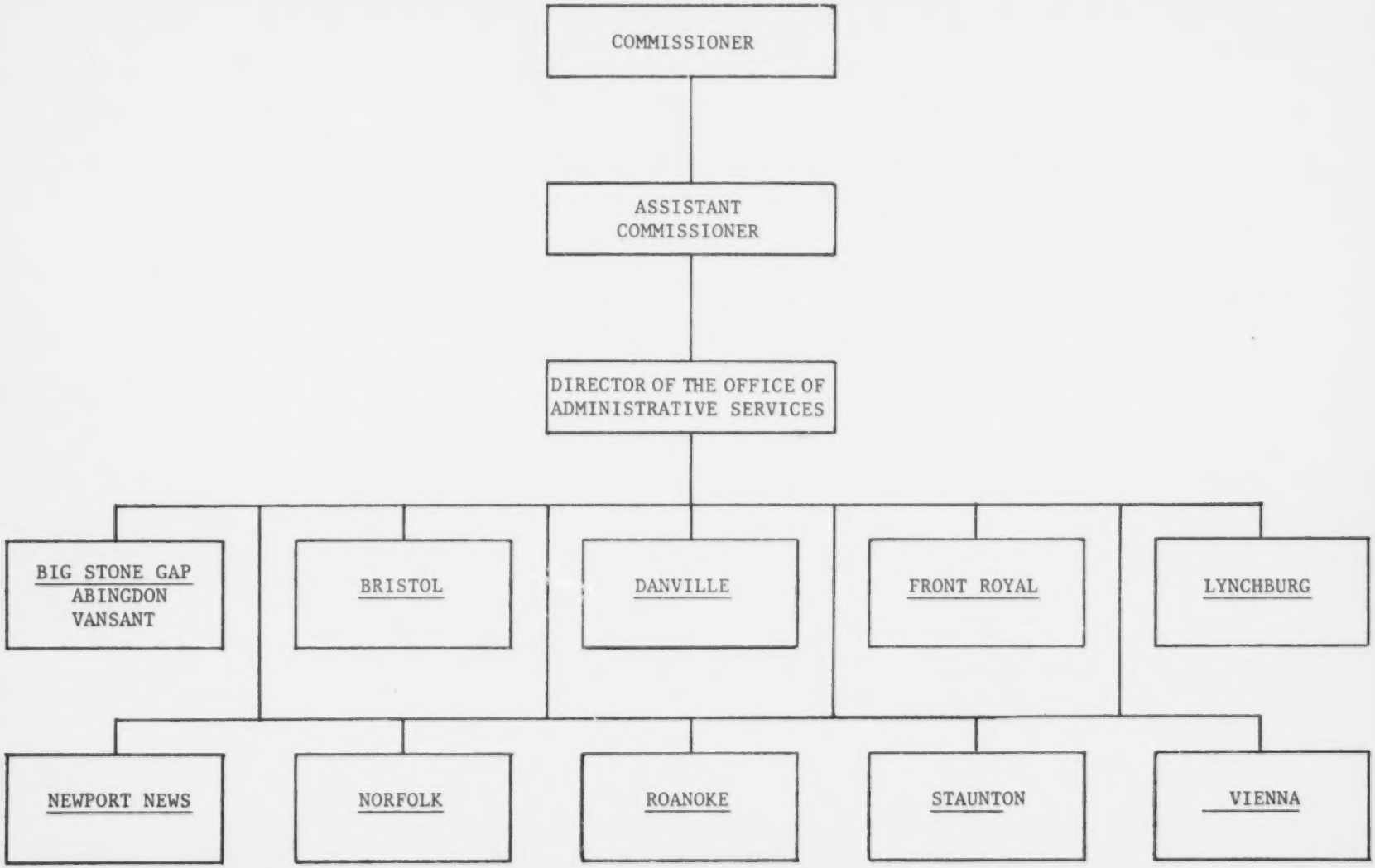
VIRGINIA DEPARTMENT OF LABOR AND INDUSTRY



(Until January 1, 1985)

July 1, 1984

ORGANIZATION CHART - FIELD OFFICE SERVICES



Note: Each office has clerical and field personnel.
All offices will be responsible for taking and referring business calls to any representative not assigned to the office but working the area.

TABLE OF CONTENTS

8 Organization and Functions of the Department

9 Virginia Public Utility Labor Relations Act

10 Division of Boiler and Pressure Vessel Safety

12 Division of State Labor Law Administration

19 Division of Apprenticeship Training

30 Division of Occupational Safety

32 Division of Voluntary Safety Compliance and Training

34 Division of Planning, Research, and Evaluation

55 Division of Mines and Quarries

76 A List of Available Publications

77 Order Request Form

ORGANIZATION AND FUNCTIONS OF THE DEPARTMENT

The Department of Labor and Industry, originally known as the Bureau of Labor and Industrial Statistics, was created by Act of the Legislature in 1898. With the enactment of the Reorganization Act of 1927, it was given the status of a regular administrative agency of the State Government and its name changed to the Department of Labor and Industry. (Section 40-1, Code of Virginia, 1950, as amended, 1958, 1962, 1964, 1966, and 1970).

By the Act creating the Department of Labor and Industry, the Commissioner of Labor and Industry and the Departmental assistants are specifically charged with the following general duties:

1. To compile and publish statistics concerning labor and industry in the State and to report in writing to the Governor annually concerning the work of the Department with such other information and with such recommendations as the Commissioner may deem proper.

2. To visit and inspect all business establishments, excavations, demolitions and construction sites, as defined in Title 40.1 and 45.1 of the Code of Virginia, where goods, wares and merchandise are manufactured, purchased and sold, at wholesale or retail, and to secure the enforcement of all laws, rules and regulations relating to the inspection of aforementioned establishments and to prosecute all violations thereof.

3. The Commissioner shall have power to take and preserve testimony, examine witnesses, administer oaths and, under proper restriction, enter any public institution of the State, any business establishment, mine or quarry, as defined in Title 40.1 and 45.1 of the Code of Virginia and interrogate any person employed therein or connected therewith or the proper officer of a corporation, or file a written or printed list of interrogatories and require full and complete answers to the same to be returned under oath within thirty (30) days of the receipt of such list of questions.

4. The Commissioner is responsible for the formulation of policies and the general supervision of all activities of the Department. She shall have the authority to appoint such assistants as may be necessary to carry out the objects and purposes of this Department. This office, through the press, radio, conferences and other means of dissemination of information, keeps employers, workers, and the public informed of the labor laws, the general activities of the Department, and the need for legislation for improving conditions of work in industry. The Commissioner is also an ex-officio member of the Virginia Apprenticeship Council and the Safety and Health Codes Commission.

5. The Commissioner is charged by statute with the duty of mediating and conciliating labor disputes affecting certain public utilities. The Commissioner also, personally, and through the Department's personnel, attempts to maintain satisfactory and peaceful relations between employers and employees; and while not charged with the responsibility by statue to mediate disputes, other than those affecting certain public utilities, the services of office have been rendered to many employers and employees, who have requested the services of the Department to assist them in reaching a mutual agreement of their differences in a labor dispute.

6. The 1962 General Assembly of Virginia provided for the establishment of a Safety Codes Commission to be appointed by the Governor which was composed of five members. The 1970 General Assembly of Virginia increased the size of the Safety Codes Commission by two additional members to be appointed by the Governor. In 1972, legislation enacted by the General Assembly of Virginia changed the name from Safety Codes Commission to Safety and Health Codes Commission and provided for the Commissioner of Health to be an ex-officio member. The Commission shall study and investigate all phases of safety in business establishments applicable to Title 40.1 and Title 45.1 of the Code of Virginia.

7. The 1970 General Assembly of Virginia recodified Title 40 to Title 40.1 and Title 45 to Title 45.1.

VIRGINIA PUBLIC UTILITY LABOR RELATIONS ACT

The Virginia Public Utility Labor Relations Act, as amended by the General Assembly, effective April 7, 1952, designates the Department of Labor and Industry as the State agency established to mediate and conciliate labor disputes. It requires notices of disputes between certain public utilities and their employees and imposes upon the Commissioner of Labor and Industry, or his designated agent, certain duties in connection therewith relating to labor disputes affecting the operation of certain public utilities.

The Act provides that the utility or the collective bargaining agent, recognized by the utility and its employees, shall not terminate or modify such contract until the party desiring such termination or modification serves written notice upon the Department of Labor and Industry of the proposed termination or modification at least thirty (30) days prior to the expiration date thereof or in the event such contract contains no expiration date, at least thirty (30) days prior to the date it is proposed to make such termination or modification. Where there is no collective bargaining contract in effect, the same procedure shall be followed by the utility and its employees or designated representatives or any labor organization or association attempting to organize employees in work affecting the utility.

Upon receipt of any such notices, the Commissioner of Labor and Industry is charged with the responsibility of notifying the Governor and informing him of the nature of the dispute. If the Governor deems it necessary, the Commissioner, or his designated agent, shall offer to meet and confer with the parties in interest and undertake to mediate and conciliate their differences to the extent of the mediation and conciliation by State agencies contemplated by the National Labor Relations Act or similar Federal legislation. In the event Federal legislation does not apply and if the Governor deems it advisable, it shall be the duty of the utility and its employees, or designated representative, to meet and confer with the Commissioner, or his agent, at a time and place designated by the Commissioner for mediating and conciliating their differences.

The Commissioner shall keep the Governor fully informed of negotiations between the utility and its employees and shall report as soon as practical if a strike or lockout appears to be probable in any such dispute, or if a strike or lockout begins, whether the continuation thereof is probable.

The Commissioner of Labor and Industry, or his agent, shall have the right of entry upon the property of a utility.

After all means of mediation and conciliation have been exercised under this Act and a stoppage of work is certain, the Governor, under the new Seizure Act, may, if he deems it necessary, seize and operate a public utility.

Mediation and conciliation service under the Public Utility Labor Relations Act continues even though it becomes necessary for State seizure under the Public Utility Seizure Act.

The Commissioner of Labor and Industry was required to attend one (1) conference in 1984 under the amended Virginia Public Utility Labor Relations Act. Sixteen (16) notices of negotiations were received during the year, nine (9) of which were electric power utilities, four (4) were telephone and telegraph utilities, one (1) was gas distribution utility, and two (2) were transportation utilities. All sixteen (16) were settled.

DIVISION OF

BOILER AND PRESSURE VESSEL SAFETY

The Division of Boiler and Pressure Vessel Safety enforces the provisions of The Boiler and Pressure Vessel Safety Act as set forth in Chapter 3.1 of Title 40.1 of the Virginia Code. The Division's primary objective is to protect life and property through regular inspections of boiler and pressure vessel equipment to ensure compliance with state law governing its construction, installation, operation, maintenance, and repair. Frequency and types of inspections are specified by law, and records are kept on the number of certificates issued, the number of violations noted, the occurrence and nature of accidents, and other specified activities of the Division. The following table summaries the chief activities of the Division for the last year:

BOILER & PRESSURE VESSEL SAFETY DIVISION

1983 and 1984

ITEM	1983	1984
Total Objects Registered	55,789	58,602
Certificates Issued	24,033	22,774
Violations Reported	*467	*624
Compliances	*341	*538
Quality Control Reviews	12	16
Nuclear Surveys	1	3
Special Inspections	2	4
Occurrences	4	7
Injuries	1	0
Fatalities	0	0
Inspectors Examinations	4	3
Applicants Taking Exam	12	12
Applicants Passing Exam	6	4
Commissioned Inspectors (Total Active)	259	246

*Statistical Variation Due to Carry Over From Previous Year(s)

DIVISION OF

STATE LABOR LAW ADMINISTRATION

The Division of State Labor Law Administration enforces the Virginia laws concerning minimum wage, payment of wages, garnishee rights, child labor, right to work, wage discrimination based upon sex or physical handicap, magazine subscription solicitation, employment of aliens, and certain other provisions of state law governing polygraph tests, medical examinations, employees being prevented employment by others, and employees' days of rest.

The Division conducts both general inspections of business establishments and complaint investigations with the primary objective of ensuring compliance with current state law in the above areas and redressing grievances. The following charts reflect the Division's record of activity for the previous year:

COURT CASES PROCESSED BY CLASSIFICATION

(Civil and Criminal)

Classification	Total 1983	Total 1984
GRAND TOTAL	177	250
Civil	149	222
Criminal	28	28
Payment of Wages and Establishment of Regular Pay Periods	177	240
Civil	149	222
Criminal	28	18
Employment of Illegal Aliens	0	10
Criminal	0	10

COURT DISPOSITIONS ON VIOLATIONS PROCESSED

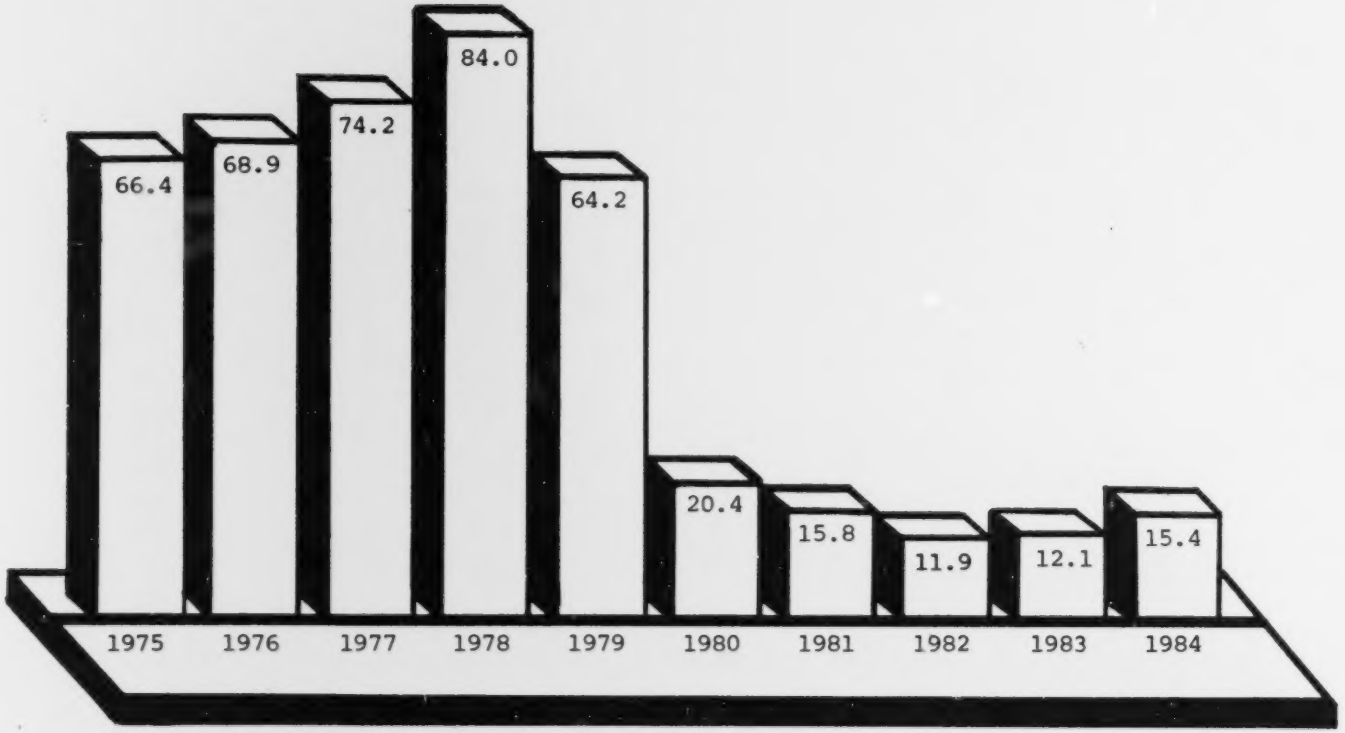
(Civil and Criminal)

Title and Section Code of Virginia		Number of Warrants Issued		Convictions		Dismissals		Nol-Pros		Judgment Awarded	
		1983	1984	1983	1984	1983	1984	1983	1984	1983	1984
	TOTAL	177	250	0	0	0	0	0	0	0	0
	Civil	149	222	0	0	0	0	0	0	0	0
	Criminal	28	28	0	0	0	0	0	0	0	0
40.1-29	Payment of Wages and Establishment of Regular Pay Periods	177	240	0	0	0	0	0	0	0	0
	Civil	149	222	0	0	26	29	13	11	110	182
	Criminal	28	18	10	9	1	6	17	3	0	0
40.1-11.1	Employment of Illegal Aliens	0	10	0	0	0	0	0	0	0	0
	Criminal	0	10	0	10	0	0	0	0	0	0

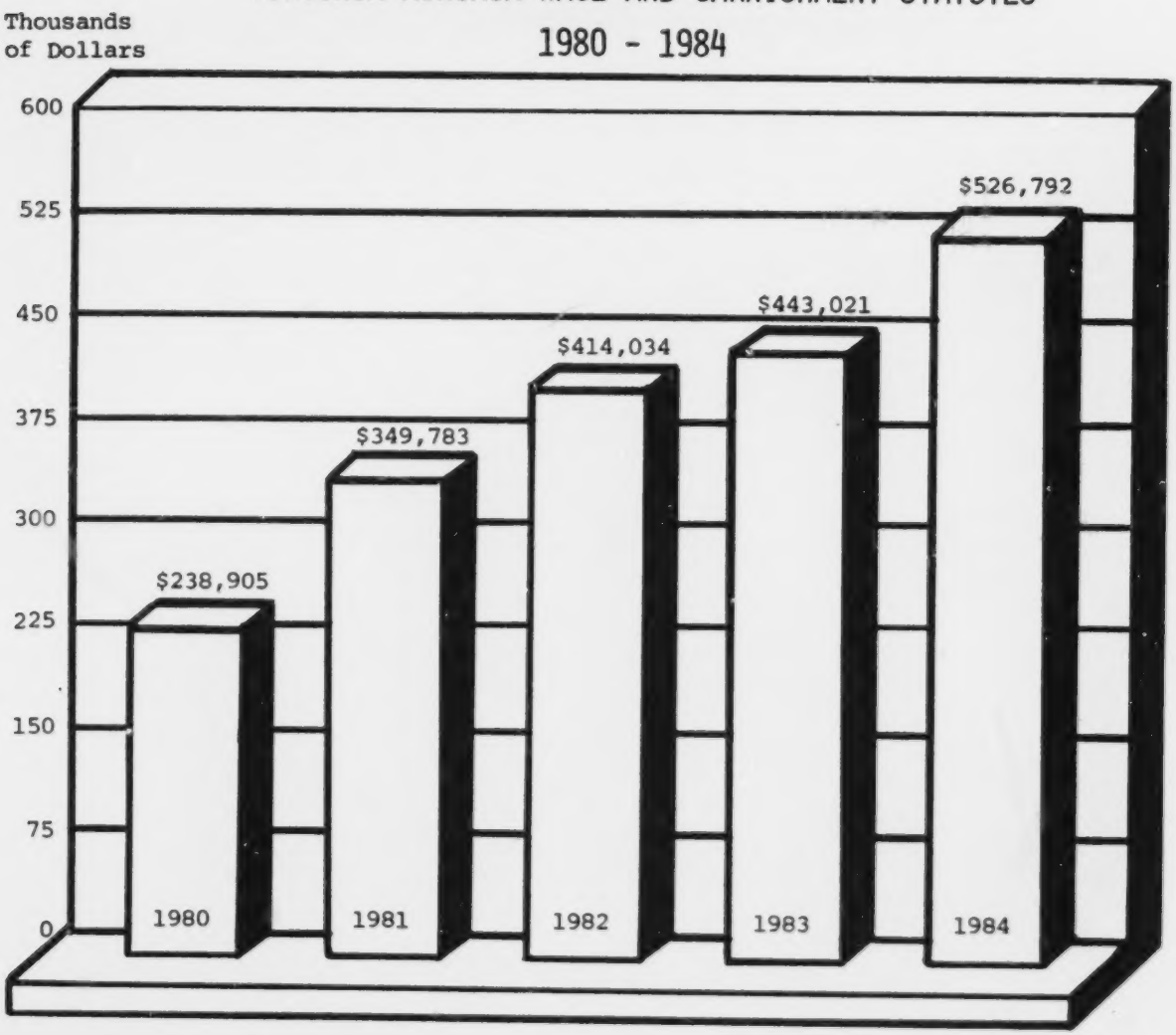
COMPLAINT INVESTIGATIONS BY CLASSIFICATION

Classification	Total 1983	Total 1984
GRAND TOTAL	2,614	2,919
Payment of Wages and Establishment of Regular Pay Periods	2,344	2,662
Virginia Minimum Wage Act	63	56
Child Labor Laws of Virginia	64	88
Employment of Illegal Aliens	117	88
Right-to-Work Law	5	6
Preventing Employment by Others of Former Employees	7	6
Unlawful to Require Payment for Medical Examination as Condition of Employment	1	2
Employers to Allow Employees at Least One Day of Rest in Each Week	2	1
Equal Pay Irrespective of Sex	0	0
Discrimination Because of Physical Handicaps Prohibited	0	3
Soliciting Subscription Contracts for Books, Magazines, Etc.	3	0
Maximum Portion of Disposable Earnings Subject to Garnishment	8	7
Prohibition of Use of Certain Questions on Polygraph Tests for Employment	0	0

EMPLOYMENT CERTIFICATES ISSUED MINORS AGES 12 TO 18
1975 - 1984
(IN THOUSANDS)



WAGES COLLECTED FOR EMPLOYEES UNDER PAYMENT OF WAGE,
VIRGINIA MINIMUM WAGE AND GARNISHMENT STATUTES
1980 - 1984



ANALYSIS OF CHILD LABOR CIVIL

MONEY PENALTIES

ITEM	ACCOMPLISHMENTS	
	1983	1984
Number of Children Involved	82	97
Types of Violations Cited:		
Working without Employment Certificates	32	37
Failure to Keep Time Records	12	21
Employment of Children Under 14	6	8
Hazardous Employment	20	32
Working Illegal Hours	41	43
Number of Penalties Assessed Employers	83	76
Amount of Penalties Assessed Employers	$5,545.00	$5,120.00

DIVISION OF APPRENTICESHIP TRAINING

The Division of Apprenticeship Training is responsible for maintaining a statewide system of apprentice training as prescribed by the Voluntary Apprenticeship Act of 1938. With the advice and guidance of the Virginia Apprenticeship Council, the Division is responsible for assisting employers in developing training programs, securing related classroom instruction, and recruiting both industries and qualified apprenticeship applicants for participation in the state program. The overall objective of the Division's efforts is to expand the state's skilled work force through a cooperative training program involving both industry and government, and to provide young Virginians with career opportunities in skilled trades. The following data reflect the Division's activities during the previous year:

STATISTICAL DATA ON APPRENTICESHIP PROGRAM

1940 - 1984

ITEMS	Total 1940-1983	Total 1984
Firms approved to train apprentices	17,083	421
Programs revised 1/	--	367
Apprentices active at beginning of 1984	--	6,920 c/
Apprentices registered and reinstated	90,216 c/	3,410 c/
Apprentices cancelled	50,688 c/	1,504 a/
Apprentices suspended	--	35
Apprentices completed without a certificate	--	78 b/
Apprentices completed with a certificate	29,415	1,641
Apprentices active December 31, 1984	--	7,072 c/

1/ Programs changed to incorporate wage changes, outline of training schedules, etc.

a/ The number of cancellations is due largely to two factors: (1) work shortage and (2) removal of apprentices who refused to take related instruction.

b/ These are apprentices who completed the on-the-job phase of their training but for some reason did not complete all related instruction requirements.

c/ This figure includes Newport News Shipbuilding and Dry Dock Company apprentices and apprentices in nationally registered programs.

REGISTERED APPRENTICESHIP SYSTEMS, PARTICIPATING ESTABLISHMENTS, AND APPRENTICES, BY TYPE OF SYSTEM IN VIRGINIA AS OF DECEMBER 31, 1984 1/

APPRENTICESHIP SYSTEMS AND RELATED FACTORS	Type of System					
		Group		Individual		
	All Types	Joint	Not Joint	Joint	No Union	Union Waiver
Systems, Total	2,002	34	8	52	1,885	23
Systems with no apprentices	732	2	2	20	701	7
Systems having apprentices	1,270	32	6	32	1,184	16
Apprentices, Total	7,072	734	205	184	5,811	138

1/ DEFINITIONS FOR STATISTICAL PURPOSES

The following definitions are intended for statistical purposes only to cover variations in current practices among states, and to permit uniformity in national tables. They are not intended as substitutes for any definitions already contained in the policies of state or Federal authorities.

Apprenticeable occupation

Any occupation so designated by the Bureau of Apprenticeship or a State Apprenticeship Agency recognized for statistical purposes by the Bureau of Apprenticeship.

Registered apprentice

An employee who under an expressed or implied agreement for a stipulated term, receives instruction in an apprenticeable occupation, and who is employed in a registered apprenticeship system, and concerning whom a recognized apprenticeship agency has on record all of the information it requires.

Registered apprenticeship system

A system for the training of apprentices through employment, established by employer(s) and/or union(s), and in which authority has been placed for determining that an apprentice has completed his training, and regarding which a written description of the terms and conditions of employment and training of apprentices has been registered by a recognized apprenticeship agency.

Types of registered apprenticeship systems

(GJ) Group Joint - A system embracing two or more companies which is jointly established by employers and union(s), and operated by a committee equally representative of employers and union(s).
(GW) Group Waiver - A system embracing two or more companies which is jointly established by employers of union(s), but in which one of the parties has waived participation in the operation of the system.
(GN) Group Not-Joint - A system embracing two or more companies which is established and operated by employers only.
(IJ) Individual Joint - A system limited to one company which is jointly established by employer and union(s), and operated by a committee equally representative of employer and union(s).
(IW) Individual Waiver - A system limited to one company which is jointly established by employer and union(s), but in which the union has waived participation in the operation of the system.
(IN) Individual Not-Joint - A system limited to one company which is established and operated by employer only.

JOINT REGISTERED APPRENTICESHIP SYSTEMS AND REGISTERED APPRENTICES IN JOINT SYSTEMS

BY TYPE OF SYSTEM AND BARGAINING AGENCY IN VIRGINIA AS OF DECEMBER 1984

Bargaining Agency	Bargaining Agency Code	Joint Systems			Apprentices in Joint Systems		
		Total	Group	Individual	Total	Group	Individual
All A.F.L. & C.I.O. Unions	32	86	34	52	918	734	184
Asbestos Workers	05	4	3	1	3	2	1
United Automobile Workers of America	06	1	0	1	7	0	7
Bakery and Confectionary Workers	07	1	0	1	4	0	4
Boilermakers	11	1	0	1	74	0	74
Bookbinders	12	1	0	1	0	0	0
Bricklayers, Masons and Plasters	14	3	3	0	48	48	0
Bridge, Structural and Ornamental Iron	15	3	3	0	11	11	0
Carpenters and Joiners	18	4	4	0	105	105	0
International Chemicals Workers	20	2	0	2	4	0	4
Electrical Workers	26	12	7	5	344	331	13
Engineers	28	2	2	0	14	14	0
Glass Bottle Blowers Association of U.S.	35	2	1	1	15	11	4
Glass Workers	37	2	1	1	13	12	1
Lathers - Wood, Wire and Metal	47	0	0	0	0	0	0
Mine Workers of America	59	0	0	0	0	0	0
Painters, Decorators and Paperhangers	63	2	1	1	33	29	4
Patternmakers	65	0	0	0	0	0	0
Photo-Engravers	66	1	0	1	0	0	0
Plasterers and Cement Finishers	67	2	2	0	4	4	0
Plumbing and Pipefitting	69	5	4	1	125	125	0
Printing Pressman and Assistants	74	5	0	5	3	0	3
Sheet Metal Workers	86	3	3	0	42	42	0
Stereotypers and Electrotypers	93	1	0	1	0	0	0
Teamsters, Chauffeurs, Warehousemen and Helpers	99	1	0	1	7	0	7
International Typographical Union	103	2	0	2	0	0	0
Combined A.F.L. Unions	299	1	0	1	1	0	1
Paperworkers of America	327	2	0	2	12	0	12
Rubber, Cork, Linoleum and Plastic Workers of America	332	1	0	1	17	0	17
United Steel Workers	341	2	0	2	2	0	2
Machinists I.A.M.	618	17	0	17	26	0	26
Union Unassigned	901	2	0	2	1	0	1
Aluminum Workers International	902	1	0	1	3	0	3

ACTIVITIES OF APPRENTICESHIP TRAINING FIELD REPRESENTATIVES

The Apprenticeship Training Field Representatives are daily making an important contribution to increasing the productivity of industry and business throughout Virginia. The Apprenticeship Training Field Representative, because of the nature of his position, background of trade and educational experience and knowledge of employer and employee relations, provides an effective counseling and advisory service to over 2,000 business and industrial establishments each year.

Many establishments, too small to employ personnel and training specialists, rely on the field representatives to advise and assist in the planning and developing of training programs that meet their respective needs. These programs are helping to increase productivity by reducing waste and inefficiency through the development of all-round skilled mechanics. While the Apprenticeship Training Field Representative has no responsibility for placement of an apprentice, he performs an important service to industry, the community and the state through his activity of advising employers on entrance requirements for apprentices, taking part in high school career programs, promoting the use of approved guidance and testing procedures offered by the Virginia Employment Service. Another contribution in the public interest is brought about by the field representative who brings labor and management together as a Joint Apprenticeship Committee, where they work harmoniously for the best interest of industry and the young apprentice who is the future mechanic.

The field representative, because of his position and experience, probably has a better opportunity to provide an effective service to industry and community through the development and maintenance of skill than any other public employee.

ACTIVITY REPORT FOR APPRENTICESHIP FIELD REPRESENTATIVES

1984 REPORT OF APPRENTICE ACTIONS BY AREAS

	APPRENTICE INFORMATION						PROGRAM INFORMATION		
AREA	New Agreements	Rein-statements	Suspen-sions	Cancel-lations	Comple-tions	Completions Without Certificate	New Programs	Revised Programs	Cancelled Programs
Bristol	101	5	2	37	53	6	31	11	19
Front Royal	250	2	0	91	89	10	42	33	76
Lynchburg	174	0	0	81	84	3	37	23	123
Newport News	152	5	3	79	71	6	27	48	74
Norfolk (I-JC)	425	10	1	244	74	7	22	19	55
Norfolk (II-TK)	130	5	1	90	86	12	34	45	84
Northern Virginia (I-FG)	260	9	10	142	53	14	63	31	106
Northern Virginia (II-DK)	223	3	5	127	58	2	25	38	49
Richmond (I-RV)	341	1	0	152	182	1	31	21	107
Richmond (II-WP)	250	1	0	112	105	0	27	23	104
Roanoke (II-WW)	185	7	0	118	106	8	43	50	94
Staunton	206	9	13	80	84	9	39	25	120
TOTALS BY AREAS	2,697	57	35	1,353	1,045	78	421	367	1,011
National & In-Plant Programs	604	52	0	151	596	0	0	0	0
GRAND TOTAL	3,301	109	35	1,504	1,641	78	421	367	1,011

FIELD STAFF CONTACTS
BY AREAS AND TYPES
1984

The following is a report showing contacts made by areas and types during 1984 by the field staff of the Division of Apprenticeship Training. Development Contacts are contacts for the purpose of promoting and developing new Apprenticeship Training Programs in individual plants, joint committees, areas, trades, etc. Maintenance Contacts are contacts for the purpose of servicing or maintaining Apprenticeship Training Programs already approved and registered by the Council. Other Contacts are contacts with Vocational Education people, local school officials, Employment Service people, school guidance personnel and all other groups and associations related to and interested in Apprenticeship Training.

	Development	Maintenance	Other	Totals
Bristol	346	422	227	995
Front Royal	166	522	65	753
Lynchburg	209	436	63	708
Newport News	313	481	118	912
Norfolk (I-JC)	119	375	89	583
Norfolk (II-TK)	117	694	142	953
Northern Virginia (I-FG)	82	1,326	51	1,459
Northern Virginia (II-DK)	146	481	87	714
Richmond (I-RV)	65	98	47	210
Richmond (II-WP)	145	551	93	789
Roanoke	121	559	159	839
Staunton	257	425	324	1,006
TOTALS	2,086	6,370	1,465	9,921

APPRENTICE ACTIVITY BY OCCUPATION GROUP

1984

Occupation	Beginning Period	New Apprentices	Reinstatements	Cancellations	Suspensions	Completions	CWC*	End of Period	Sponsors of Occup.
Electronic Technician	11	19	0	1	0	16	0	13	15
Instrument Technician	2	1	0	1	0	0	0	2	1
Electrical Drafter	1	0	0	0	0	1	0	0	3
Engineering Aide	2	2	0	0	0	0	0	4	5
Tool Designer	1	0	0	1	0	0	0	0	3
Machinist (Engineering Aide)	1	0	0	0	0	1	0	0	2
Mechanical Drafter	2	0	0	2	0	0	0	0	7
Metallurgical Technician	0	1	0	0	0	0	0	1	1
Quality Control Technician	0	8	0	0	0	0	2	6	1
Party Chief (Surveyor)	35	41	0	11	1	2	0	62	33
Instrument Surveyor Assistant	3	1	0	1	0	1	0	2	11
Photographer	1	0	0	0	0	0	0	1	2
Industrial Waste Inspector	0	1	0	1	0	0	0	0	1
Auto Parts Clerk	2	1	0	0	0	0	0	3	5
Optician (Dispensing)	67	47	1	17	2	13	3	80	116
Commercial Food Equipment Technician	1	1	0	1	0	0	0	1	2
Cook	136	62	0	26	1	39	1	131	42
Cook (Institutional)	0	15	0	0	0	0	0	15	1
Meat Cutter	10	3	0	7	0	1	0	5	12
Barber	66	39	1	21	1	30	3	51	231
Cosmetologist	385	427	10	275	5	167	4	369	1032
Psychiatric Aide	6	19	0	9	0	11	0	5	1
Plater	7	3	0	0	0	0	0	10	3
Electric Instrument Mechanic (Chemical)	1	0	0	0	0	0	0	1	1
Molder	20	2	0	11	0	1	0	10	2
Baker	4	17	0	4	0	0	0	17	9
Experimental Facilities Mechanic	20	22	0	6	0	15	0	21	1
Machinist	658	250	8	98	4	163	9	642	250
Auto Machinist	3	0	0	2	0	0	1	0	8
Experimental Machinist	15	7	0	0	0	16	0	6	2
Maintenance Machinist	28	6	0	1	0	7	0	26	16
Mold Maker (Die Casting & Plastic Molding)	9	0	0	0	0	0	0	9	2
Tool Maker	8	3	1	1	0	3	0	8	6
Tool & Die Maker	70	15	0	7	0	26	1	51	45
Surface Grinding Specialist	1	0	0	1	0	0	0	0	1
Tool Grinder Operator	0	1	0	0	0	1	0	0	1
Blacksmith	7	1	0	0	0	3	0	5	2
Inspector, Metal Fabricating	27	0	0	0	0	8	0	19	1
Metal Fabricator	24	14	0	8	0	1	0	29	10
Auto Mechanic	38	21	6	12	0	5	4	38	90
Construction Equipment Mechanic	22	2	1	0	0	6	0	19	17
Truck Mechanic	14	5	0	4	0	2	0	13	28
Horticulturist	0	1	0	0	0	0	0	1	1
Motorcycle Mechanic	0	1	0	1	0	0	0	0	5
Transmission Mechanic	2	1	0	0	0	0	0	3	2
Aerospace Engineering Technician	1	1	0	0	0	2	0	0	2
Outside Machinist	193	67	4	12	0	64	0	188	5
Motorboat Mechanic	1	0	0	0	0	0	0	1	4
Farm Equipment Mechanic	4	0	0	0	0	2	0	2	9
Diesel Mechanic	9	10	0	3	0	0	0	16	12
Fuel Injection Mechanic	1	0	0	0	0	0	0	1	4
Maintenance Machine Repairer	1	0	0	0	0	0	0	1	1
Welding Equipment Repairer	2	4	0	2	0	0	0	4	1
Treatment Plant Mechanic	19	18	0	4	0	4	0	29	2
Gunsmith	2	0	0	0	0	1	0	1	3
Office Machine Servicer	1	0	0	0	0	0	0	1	8
Scale Mechanic	2	0	0	0	0	2	0	0	2
Industrial Air Conditioning Mechanic	10	4	0	5	0	0	0	9	17
Refrigeration Mechanic	90	26	1	13	1	10	0	93	69
Maintenance Mechanic	199	106	1	28	0	37	9	232	130
Millwright	110	22	5	3	8	57	0	69	19
Industrial Sewing Machine Repairer	1	0	0	0	0	0	0	1	2
Rotogravure Press Operator	19	4	0	1	0	11	0	11	2
Web Press Operator	23	36	1	2	0	18	0	40	11
Printer	1	0	0	1	0	0	0	0	1
Offset Press Operator	8	26	0	0	0	2	0	32	15
Bindery Worker	49	68	0	2	0	41	0	74	5
Plate Finisher	0	1	0	0	0	0	0	1	1
Cabinet Maker	21	15	0	5	0	2	3	26	32
Loft Worker	26	3	0	2	0	7	0	20	1
Wood Patternmaker	8	3	0	1	0	4	0	6	8
Machinist, Wood (Millman)	1	0	0	1	0	0	0	0	5
Metal Patternmaker	5	9	0	0	0	5	0	9	4
Engineering Technician (Aerospace Model Development)	11	0	0	2	0	8	0	1	1
Jeweler	1	6	0	1	0	2	0	4	4
Locksmith	5	0	0	0	0	1	0	4	6
Electro-Mechanical Technician	12	2	0	4	0	1	2	7	3
Instrument Mechanic	11	1	2	0	2	6	0	6	7
Dental Lab Technician	4	3	0	1	0	1	0	5	6
Prosthetics Technician	3	0	0	0	0	1	0	2	1
Optical Lab Technician	0	1	0	1	0	0	0	0	4
Biomedical Equipment Technician	3	0	0	0	0	0	0	3	1
TV & Radio Repairer	11	11	0	7	0	6	0	9	11
Repairer & Winder	1	0	0	1	0	0	0	0	1
Electric Motor Repairer	1	0	0	0	0	0	0	1	7
Electrical Appliance Repairer	0	3	0	0	0	0	0	3	2
Electronics Inspector (Quality Control)	13	16	0	23	0	2	0	4	1
Piano Technician	0	1	0	0	0	0	0	1	1
Framer	0	1	0	1	0	0	0	0	1
Plastics Fabricator	4	4	0	0	0	5	0	3	2
Furniture Upholsterer	1	2	0	0	0	0	0	3	4
Auto Upholsterer	0	1	0	1	0	0	0	0	1
Nail Maker	24	0	0	0	0	3	0	21	1
Structural Steel Worker	22	13	0	5	1	10	0	19	9
Sheetmetal Worker	337	123	9	69	0	52	3	345	120
Boilermaker	80	17	1	0	0	19	0	79	3
Boilerhouse Mechanic	16	2	0	0	0	3	0	15	2
Rigger (Ship)	124	22	3	6	0	19	0	124	4
Motor Dynamometer Tester	0	4	0	9	0	0	0	4	1
Electro-Mechanic Assembler	1	4	0	1	0	0	0	4	1
Experimental Aircraft Assembly Mechanic	0	7	0	0	0	0	0	7	1
Shipfitter	227	61	9	23	0	54	0	220	4
Truck Body Repairer	3	0	0	0	0	2	0	1	3
Auto Body Repairer	3	1	0	1	0	0	1	2	21

APPRENTICE ACTIVITY BY OCCUPATION GROUP

1984

Occupation	Beginning Period	New Apprentices	Reinstatements	Cancellations	Suspensions	Completions	CWC*	End of Period	Sponsors of Occup.
Layout Worker	1	0	0	1	0	0	0	0	1
Fabricator-Assembler (Metal)	0	7	0	0	0	0	0	7	3
Welder	210	50	9	24	0	32	1	212	31
Line Erector (Power & Light)	4	0	0	0	0	1	0	3	6
Burglar Alarm Servicer	4	0	0	1	0	0	0	3	2
Electrician	996	529	7	320	3	182	7	1020	316
Ship Electrician	325	70	3	13	0	94	1	290	5
Electric Appliance Servicer	3	0	0	1	0	0	1	1	8
Electronics Mechanic	126	36	0	0	0	18	0	144	7
Maintenance Electrician	102	34	2	7	2	27	0	102	79
Sound Technician	3	1	0	3	0	0	0	1	1
Cable Splicer	14	2	0	0	0	2	0	14	1
Painter	62	16	1	11	0	15	1	52	23
Painter (Ship)	57	20	2	3	0	15	0	61	4
Lather	4	1	0	1	0	0	0	4	5
Plasterer	11	5	0	3	0	0	1	12	8
Drywall Applicator	0	16	0	4	0	0	0	12	1
Drywall Taper	1	0	0	1	0	0	0	0	1
Cement Mason	0	1	0	0	0	0	0	1	3
Septic Tank Installer	0	1	0	0	0	0	0	1	1
Operating Engineer	16	8	0	3	0	7	0	16	9
Maintenance Carpenter	4	0	0	0	0	2	0	2	11
Ship Carpenter	9	2	1	0	0	1	0	11	2
Carpenter	225	149	4	71	0	18	3	286	110
Carpenter (Rough)	3	0	0	0	0	0	0	3	1
Joiner (Ship)	38	7	0	0	0	9	0	36	3
Shipwright	30	6	0	0	0	7	0	29	2
Bricklayer	57	60	3	25	0	5	1	89	40
Tile Setter	3	8	0	1	0	1	1	8	2
Sewer Systems Maintenance Mechanic	7	1	1	1	0	0	0	8	1
Pipefitter (Ship)	366	66	10	17	0	71	1	353	4
Oil Burner Servicer & Installer	5	1	0	0	0	0	0	6	5
Pipefitter	200	50	1	29	1	44	0	177	61
Plumber	272	141	1	95	0	19	7	293	175
Insulation Worker	72	78	0	11	3	17	2	117	13
Pipecoverer	49	6	2	0	0	5	0	52	2
Glazier	14	11	0	2	0	10	0	13	2
Glazier (Auto)	2	3	0	2	0	1	0	2	1
Concrete Wall Technician	21	0	0	13	0	1	1	6	1
Asbestos Worker	13	4	0	1	0	1	0	15	1
Maintenance Repairer (Factory or Mill)	1	6	0	0	0	1	0	6	3
Maintenance Repairer (Building)	63	57	1	60	0	12	2	47	52
Rigger	1	0	0	0	0	1	0	0	1
Boiler Operator	0	3	0	1	0	0	0	2	1
Stationary Engineer	9	0	0	2	0	0	0	7	6
Water Treatment Plant Operator	4	1	0	0	0	1	0	4	6
Wastewater Treatment Plant Operator	50	35	3	14	0	5	0	69	7
Etcher-Photoengraving	10	0	0	0	0	4	0	6	2
Photographer-Photoengraving	1	0	0	0	0	1	0	0	2
Lithographer	2	0	0	0	0	0	0	2	4
Transferrer	4	7	0	0	0	4	0	7	3
Photographer-Lithographic	0	9	0	0	0	0	0	9	2
Compositor	1	1	0	1	0	0	0	1	9
Photographic Supervisor	0	1	0	0	0	0	0	1	1
Engraver (Machine)	2	0	0	0	0	1	0	1	1
Stripper	6	2	0	0	0	3	0	5	5
TOTALS	6,920	3,301	109	1,504	35	1,641	78	7,072	3,676

COMPARATIVE REPORT OF CONTACTS MADE BY FIELD STAFF

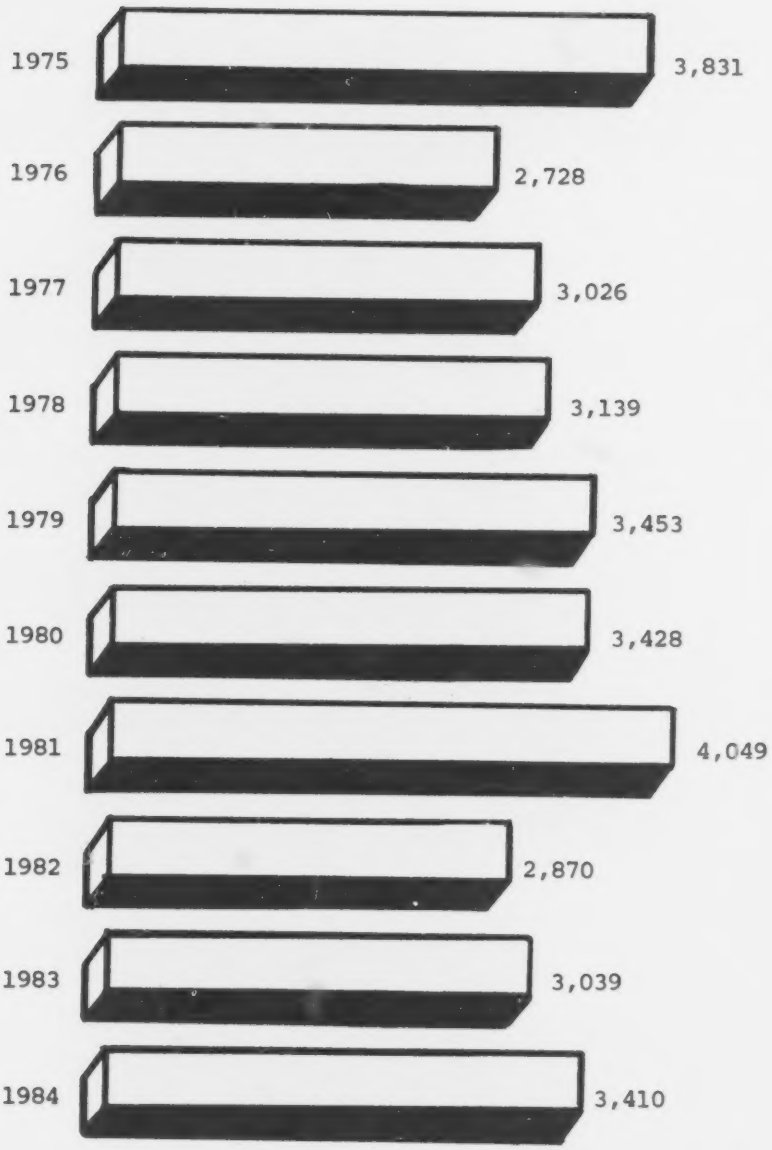
BY MONTHS AND TYPES

1984

The following is a comparative report of the contacts made by the field staff of the Division of Apprenticeship Training during 1984. This report is based on the same figures used in compiling the report of contacts made by the field staff and shown by areas and types. This table shows the types of contacts by the number made during each month of the year.

	Development	Maintenance	Other	Totals
January	150	595	114	859
February	190	523	119	832
March	217	617	138	972
April	180	572	129	881
May	137	523	133	793
June	152	608	138	898
July	190	508	97	795
August	282	609	125	1,016
September	147	414	131	692
October	198	587	136	921
November	141	474	126	741
December	102	340	79	521
TOTALS	2,086	6,370	1,465	9,921

NUMBER OF NEW APPRENTICES REGISTERED
1975 - 1984



INDUSTRIES WITH APPRENTICESHIP PROGRAMS
GROUPED BY THE NUMBER OF
EMPLOYEES EMPLOYED
1984

Number of Systems	Number of Employees in Firm
1,022	1 to 9
396	10 to 24
201	25 to 49
121	50 to 99
87	100 to 199
132	200 to 999
34	1,000 to 4,999
9	5,000 or more
0	Size Class N/A
2,002	TOTAL SYSTEMS

DIVISION OF OCCUPATIONAL SAFETY

The Division of Occupational Safety enforces the state laws that address the safety and health of workers employed in construction and general industry, both in the public and private sectors. The Division's jurisdiction covers all commercial and industrial establishments, and all construction, excavation, and demolition work within the Commonwealth.

The primary responsibility of the Division's is to make scheduled inspections of the state's workplaces to ensure compliance with state safety standards and regulations. In addition, the Division responds to complaints from employees and investigates accidents and fatalities. The Division's overall objective is to eliminate workplace hazards through inspection, abatement, and enforcement.

The following data reflect the Division's activities during the previous year:

ANALYSIS OF ACTIVITIES OF THE

OCCUPATIONAL SAFETY DIVISION

COMPARISON: 1983 and 1984

	1983		1984
	Industrial	Construction	
Safety Inspections:			
Record Review	260		155
Planned	473	1,329	1,538
Follow Up	84	49	29
Complaints	112	88	229
Referrals			77
Accidents	25	17	84
Unprogrammed Related			62
Programmed Related			2
Monitoring			2
Total Inspections	954	1,483	2,178
Fatality Investigations	22	13	46
Safety Violations Noted	3,035	2,706	3,876
Court Cases Completed	2	29	14
Informal Conferences Held	53	72	120
Speeches and Seminars	4	3	7
Safety Schools for Representatives	20	18	17
State Safety Conference	1	1	1
Explosive Permits Issued:			
Storage of Explosives		957	928
Small Users of Explosives		359	381
Sale of Explosives		58	46
Manufacturers of Explosives		7	6
Special Use of Explosives		0	3
Revenue Collected		$14,250	$13,905
Regulatory Inspections Dealing with Explosives		6	6

For the period 1983, figures were reported separately for two divisions; this year 1984, figures have been combined.

DIVISION OF

VOLUNTARY SAFETY COMPLIANCE AND TRAINING

The Division of Voluntary Safety Compliance and Training is charged with performing training and safety consultation services as outlined in Sections 7(c) (1) and 18 (b) of Public law 91-596, the Occupational Safety and Health Act of 1970.

The primary mission of the Division is to avert accidents and injuries at Virginia workplaces through a program of free on-site consultations with employers who wish to comply voluntarily with Virginia's occupational safety standards, and through free safety training courses for employees. The following data reflect the Division's activities during the previous year:

ANALYSIS OF ACTIVITIES OF THE

VOLUNTARY SAFETY COMPLIANCE AND TRAINING DIVISION

1984

Consultative Surveys	552
Consultative Assistance	364
Safety Hazards Noted	3,097
Serious Hazards Abated	921
Conferences (other than during Consultative Surveys)	212
Safety Courses (Construction and Industrial)	63
Demonstrations/Safety Talks	216
Loan of 185 Safety Films by the Richmond Office)	1,531

DIVISION OF

RESEARCH AND STATISTICS

The Division of Research and Statistics is responsible for performing the research and statistical functions outlined in Title 40 of the Virginia Code and, pursuant to a 1970 agreement with the U.S. Department of Labor, Public Law 91-596. The primary mission of the Division is to serve in a support role to the Department as a whole, collecting, analyzing, and compiling data on incidences and causes of occupational injuries, illnesses, and fatalities, and other information necessary for the administration of the state's occupational safety and health program. The Division also compiles data on food prices; mining and quarrying activities in the state (this function was transferred to the Department of Mines, Minerals, and Energy as of January 1, 1985); and assists the Department's other divisions in analyzing and compiling information in their specialized areas. The following tables summarize the Division's statistical findings during the previous year:

PERCENT DISTRIBUTIONS OF REPORTED WORKERS' COMPENSATION CASES OCCURRING IN 1983, 1/ BY ACCIDENT TYPE, INDUSTRY GROUP, AND OCCUPATION OF WORKER, VIRGINIA

Industry group or Occupation	Accident type						
	Total	Struck by object 2/	Overexertion	Fall	Bodily reaction	Caught in 3/	Other
Total -- Private and Nonfederal public sectors	100.0	28.5	27.3	17.4	8.3	4.7	13.8
Private sector	100.0	29.3	27.4	17.1	7.6	5.1	13.5
Agriculture, forestry, and fishing	100.0	41.6	12.4	22.5	7.9	6.7	8.9
Goods-producing, nonagricultural private-sector	100.0	31.5	26.8	15.4	7.0	6.8	12.5
Mining	100.0	36.1	28.7	8.8	6.6	6.9	12.9
Construction	100.0	32.1	22.0	21.6	6.8	4.2	13.3
Manufacturing	100.0	30.1	30.1	12.0	7.3	8.7	11.8
Durable goods	100.0	38.0	26.2	9.7	6.3	8.6	11.2
Nondurable goods	100.0	23.1	33.5	13.9	8.2	8.7	12.6
Service-producing, nonagricultural private-sector	100.0	26.8	28.6	18.5	8.2	3.5	14.4
Transportation and public utilities	100.0	17.6	29.0	16.3	10.6	4.0	22.5
Wholesale trade	100.0	26.9	32.3	17.6	6.9	4.6	12.6
Retail trade	100.0	32.3	27.2	18.5	7.1	2.9	12.0
Finance, insurance, and real estate	100.0	21.4	23.1	23.7	8.7	2.6	20.5
Services	100.0	25.6	29.4	19.2	9.2	3.8	12.8
State and local government	100.0	22.8	27.0	19.0	12.8	1.7	16.7
State government	100.0	27.2	28.3	19.3	10.4	1.6	13.2
Local government	100.0	20.2	26.1	18.9	14.3	1.8	18.7
Total -- All occupations	100.0	28.5	27.3	17.4	8.3	4.7	13.8
Professional, technical, and kindred workers	100.0	24.0	22.9	22.4	14.2	1.7	14.8
Managers and administrators, except farm	100.0	27.3	28.1	19.8	8.1	1.4	15.3
Salesworkers	100.0	24.1	18.7	27.8	9.7	1.3	18.4
Clerical and kindred workers	100.0	18.6	28.3	28.0	12.1	3.4	9.6
Craftsmen and kindred workers	100.0	31.1	25.8	17.3	7.9	5.3	12.6
Operatives, except transport	100.0	31.3	30.9	11.0	7.8	8.3	10.7
Transport equipment operatives	100.0	16.9	28.8	16.3	9.1	3.5	25.4 4/
Laborers, except farm	100.0	33.9	28.7	14.6	5.3	5.6	11.9
Farm workers, all classifications	100.0	40.3	12.7	26.1	6.0	8.2	6.7
Service workers, except private household	100.0	26.4	25.9	21.3	9.9	1.9	14.6

1/ The 14,379 Supplementary Data System (SDS) cases studied were almost a one-third sample of 46,646 cases established by the Industrial Commission of Virginia.

2/ Struck by object includes struck against.

3/ Caught in includes caught between and caught under.

4/ Motor - vehicle accidents accounted for 21.0 percent of accidents to transport equipment operatives.

SOURCE: Supplementary Data System, Virginia Department of Labor and Industry in cooperation with the U. S. Department of Labor, Bureau of Labor Statistics

OCCUPATIONAL INJURY AND ILLNESS INCIDENCE RATES BY INDUSTRY, VIRGINIA, 1975-1983
INCIDENCE RATES PER 100 FULL-TIME WORKERS 2/

INDUSTRY AND TYPE OF CASE 1/	1975	1976	1977	1978	1979	1980	1981	1982	1983
TOTAL									
Total Cases	8.0	8.2	8.9	9.0	8.6	8.1	7.6	7.0	7.2
Lost Workday Cases	3.1	3.3	3.6	3.9	4.1	3.9	3.6	3.3	3.3
Nonfatal Cases Without Lost Workdays	4.8	4.9	5.2	5.1	4.6	4.2	4.0	3.7	3.8
Lost Workdays	48.5	53.0	57.0	56.7	58.3	59.2	62.7	51.2	51.8
PRIVATE SECTOR									
Total Cases	8.2	8.4	9.1	8.9	8.6	8.1	7.6	6.8	7.0
Lost Workday Cases	3.2	3.3	3.7	3.9	4.0	3.9	3.6	3.2	3.2
Nonfatal Cases Without Lost Workdays	5.0	5.1	5.4	5.0	4.6	4.2	4.0	3.6	3.8
Lost Workdays	51.4	55.6	59.5	57.9	59.8	60.3	64.4	50.9	51.2
AGRICULTURE, FORESTRY, AND FISHING 3/									
Total Cases	8.4	6.8	9.4	11.0	9.7	7.2	7.8	8.4	9.9
Lost Workday Cases	4.4	3.0	4.9	5.8	5.7	4.0	4.0	4.6	5.7
Nonfatal Cases Without Lost Workdays	3.9	3.9	4.5	5.2	4.0	3.2	3.7	3.8	4.2
Lost Workdays	172.7	91.5	110.4	60.0	39.2	64.0	58.1	63.1	91.5
MINING									
Total Cases	7.9	9.4	11.0	10.0	10.6	12.3	10.2	8.5	7.9
Lost Workday Cases	5.9	5.7	6.1	8.1	8.9	10.1	8.2	7.0	6.5
Nonfatal Cases Without Lost Workdays	1.9	3.5	4.8	1.8	1.6	2.1	1.9	1.4	1.3
Lost Workdays	92.9	98.6	109.9	189.7	199.1	265.9	203.0	179.9	208.9
CONSTRUCTION									
Total Cases	4.4	14.2	15.5	17.2	16.1	15.8	14.9	14.3	14.5
Lost Workday Cases	5.2	5.3	5.8	7.0	7.4	7.2	6.5	6.3	6.6
Nonfatal Cases Without Lost Workdays	9.2	8.9	9.7	10.1	8.7	8.6	8.3	8.0	7.9
Lost Workdays	107.8	115.3	110.4	124.2	126.8	129.4	118.0	113.9	116.0
General Building Contractors:									
Total Cases	14.5	12.5	13.3	15.4	15.6	14.9	13.1	12.4	14.2
Lost Workday Cases	5.3	5.2	4.4	6.1	7.3	6.2	5.5	5.1	6.2
Nonfatal Cases Without Lost Workdays	9.2	7.3	8.9	9.3	8.3	8.7	7.6	7.3	8.0
Lost Workdays	118.3	153.9	87.0	110.0	127.4	130.0	120.0	106.0	110.3
Heavy Construction Contractors:									
Total Cases	16.0	18.0	17.0	19.6	17.1	17.1	16.3	16.4	13.0
Lost Workday Cases	5.3	5.7	6.7	7.4	7.3	7.3	7.2	7.2	5.9
Nonfatal Cases Without Lost Workdays	10.6	12.3	10.3	12.1	9.8	9.8	9.0	9.2	7.1
Lost Workdays	119.1	120.1	150.7	142.7	116.0	129.5	122.0	125.9	131.5
Special Trade Contractors:									
Total Cases	13.8	13.2	16.2	17.0	16.0	15.7	15.2	14.3	15.1
Lost Workday Cases	5.2	5.1	6.3	7.2	7.7	7.7	6.7	6.6	7.0
Nonfatal Cases Without Lost Workdays	8.6	8.1	9.9	9.7	8.3	8.0	8.4	7.7	8.1
Lost Workdays	96.4	91.9	107.1	124.4	131.8	129.0	115.2	113.1	112.7
MANUFACTURING									
Total Cases	11.5	11.8	12.3	12.1	11.4	11.5	10.9	9.2	9.3
Lost Workday Cases	4.2	4.6	4.8	5.0	5.0	5.1	4.8	3.8	3.8
Nonfatal Cases Without Lost Workdays	7.3	7.3	7.5	7.1	6.4	6.4	6.0	5.4	5.4
Lost Workdays	58.9	70.8	71.0	69.6	75.0	75.5	72.8	61.1	58.6
Durable Goods:									
Total Cases	----	----	----	14.7	13.4	13.4	13.1	11.3	11.4
Lost Workday Cases	----	----	----	5.9	5.7	5.9	5.8	4.6	4.4
Nonfatal Cases Without Lost Workdays	----	----	----	8.8	7.6	7.5	7.3	6.7	7.0
Lost Workdays	----	----	----	80.7	84.5	90.5	86.5	75.1	67.5
Lumber and Wood Products:									
Total Cases	16.5	17.1	19.3	16.6	16.0	14.6	14.4	13.5	15.5
Lost Workday Cases	5.9	6.6	8.0	7.6	7.9	6.8	7.1	6.3	7.3
Nonfatal Cases Without Lost Workdays	10.5	10.4	11.3	9.0	8.1	7.7	7.3	7.2	8.1
Lost Workdays	97.9	124.6	121.9	117.9	125.0	116.1	112.5	118.5	104.7
Furniture and Fixtures:									
Total Cases	10.8	11.0	11.6	13.3	12.3	12.2	10.6	8.2	8.4
Lost Workday Cases	3.6	3.3	3.3	4.0	4.0	4.7	4.1	3.0	2.9
Nonfatal Cases Without Lost Workdays	7.2	7.6	8.3	9.3	8.3	7.5	6.5	5.2	5.5
Lost Workdays	46.2	53.3	53.1	69.6	58.8	64.1	58.8	43.3	41.3
Stone, Clay, and Glass Products:									
Total Cases	14.2	15.2	16.7	20.0	16.3	15.2	13.3	13.8	16.0
Lost Workday Cases	5.8	6.5	7.5	8.2	8.5	7.7	6.1	7.0	7.8
Nonfatal Cases Without Lost Workdays	8.4	8.6	9.1	11.8	7.8	7.5	7.2	6.8	8.2
Lost Workdays	110.9	107.5	113.3	138.0	130.9	139.1	104.2	103.8	103.1
Primary Metal Industries:									
Total Cases	9.2	11.8	12.4	14.4	17.2	13.0	12.5	9.8	9.9
Lost Workday Cases	3.8	4.6	5.9	7.4	7.7	6.1	6.3	4.8	4.6
Nonfatal Cases Without Lost Workdays	5.4	7.2	6.5	7.0	9.5	6.9	6.2	5.0	5.2
Lost Workdays	63.8	81.7	92.6	101.5	111.0	113.5	101.8	57.2	77.1
Fabricated Metal Products:									
Total Cases	15.9	16.8	17.4	19.6	20.1	16.5	15.7	13.5	14.6
Lost Workday Cases	5.9	6.3	6.9	8.0	8.9	7.7	7.0	6.1	5.7
Nonfatal Cases Without Lost Workdays	10.0	10.5	10.5	11.6	11.2	8.8	8.7	7.4	8.9
Lost Workdays	79.5	163.4	93.9	108.9	116.5	91.1	94.1	103.3	97.7

OCCUPATIONAL INJURY AND ILLNESS INCIDENCE RATES BY INDUSTRY, VIRGINIA, 1975-1983 (continued)
INCIDENCE RATES PER 100 FULL-TIME WORKERS 2/

INDUSTRY AND TYPE OF CASE 1/	1975	1976	1977	1978	1979	1980	1981	1982	1983
TOTAL									
Machinery, Except Electrical:									
Total Cases	11.4	16.6	13.4	12.1	10.4	14.4	16.4	11.1	12.1
Lost Workday Cases	4.2	5.7	5.2	4.8	4.6	6.4	6.2	4.2	4.5
Nonfatal Cases Without Lost Workdays	7.2	10.8	8.2	7.3	5.8	8.0	10.3	6.9	7.6
Lost Workdays	49.4	74.4	66.0	53.9	56.4	71.6	67.9	50.5	63.7
Electric and Electronic Equipment:									
Total Cases	7.4	6.5	7.3	7.5	6.6	5.7	5.9	5.8	4.1
Lost Workday Cases	2.0	1.9	1.8	2.9	2.8	2.5	2.2	2.3	1.5
Nonfatal Cases Without Lost Workdays	5.4	4.6	5.5	4.6	3.8	3.2	3.8	3.5	2.6
Lost Workdays	24.7	31.2	20.3	39.6	41.9	28.1	35.5	34.7	23.2
Nondurable Goods:									
Total Cases	----	----	----	9.8	9.7	9.6	8.7	7.4	7.4
Lost Workday Cases	----	----	----	4.2	4.4	4.4	3.9	3.2	3.3
Nonfatal Cases Without Lost Workdays	----	----	----	5.6	5.3	5.2	4.8	4.2	4.1
Lost Workdays	----	----	----	59.7	66.3	62.0	59.5	49.1	50.8
Food and Kindred Products:									
Total Cases	15.6	16.0	17.3	16.0	15.8	15.6	14.3	13.3	12.6
Lost Workday Cases	6.2	7.1	7.7	7.8	8.4	8.3	6.8	6.5	6.2
Nonfatal Cases Without Lost Workdays	9.4	8.9	9.6	8.2	7.4	7.3	7.4	6.8	6.4
Lost Workdays	82.5	108.6	110.0	103.0	114.3	116.5	106.9	106.9	99.4
Tobacco Manufactures:									
Total Cases	10.5	----	----	----	----	----	----	5.2	4.6
Lost Workday Cases	5.7	----	----	----	----	----	----	3.2	2.8
Nonfatal Cases Without Lost Workdays	4.8	----	----	----	----	----	----	2.0	1.8
Lost Workdays	75.6	----	----	----	----	----	----	47.4	47.8
Textile Mill Products:									
Total Cases	8.9	9.5	10.1	9.1	8.7	7.8	7.3	6.0	7.3
Lost Workday Cases	1.9	2.6	2.7	3.3	3.3	3.0	2.9	2.3	2.8
Nonfatal Cases Without Lost Workdays	7.0	7.0	7.4	5.8	5.4	4.8	4.4	3.7	4.5
Lost Workdays	42.2	42.5	39.5	45.3	46.0	40.8	42.8	33.3	39.5
Apparel and Other Textile Products:									
Total Cases	6.4	5.8	6.3	6.8	6.4	6.8	7.2	6.5	6.5
Lost Workday Cases	2.0	1.9	1.9	2.2	2.1	2.2	2.4	1.9	2.5
Nonfatal Cases Without Lost Workdays	4.4	3.9	4.4	4.6	4.3	4.6	4.8	4.6	4.0
Lost Workdays	27.4	30.4	30.4	33.0	35.1	32.2	31.3	27.4	36.9
Paper and Allied Products:									
Total Cases	10.0	10.2	11.6	11.6	11.6	10.5	9.8	8.7	7.5
Lost Workday Cases	2.6	3.4	3.4	3.9	4.7	3.9	4.3	3.5	3.2
Nonfatal Cases Without Lost Workdays	7.4	6.8	8.2	7.7	6.9	6.6	5.5	5.2	4.3
Lost Workdays	50.9	72.5	63.5	73.3	75.3	52.1	72.1	55.0	60.8
Printing and Publishing:									
Total Cases	6.0	6.1	6.3	8.0	8.5	8.3	7.5	7.7	6.9
Lost Workday Cases	2.4	2.3	2.5	3.4	3.6	3.9	3.2	2.9	2.8
Nonfatal Cases Without Lost Workdays	3.7	3.8	3.8	4.6	4.9	4.4	4.3	4.8	4.1
Lost Workdays	26.9	31.1	26.7	34.4	57.0	44.4	33.2	37.4	42.9
Chemicals and Allied Products:									
Total Cases	4.9	4.9	4.1	4.2	4.1	4.0	3.4	2.6	2.5
Lost Workday Cases	2.0	2.0	1.4	1.6	1.4	1.6	1.4	.9	.8
Nonfatal Cases Without Lost Workdays	2.9	3.0	2.7	2.6	2.7	2.4	2.0	1.7	1.7
Lost Workdays	29.3	31.9	24.9	26.8	21.8	30.8	26.7	15.3	10.9
Rubber and Misc. Plastics Products:									
Total Cases	15.0	12.6	14.9	16.2	12.0	18.7	11.8	9.7	10.5
Lost Workday Cases	8.0	6.0	7.2	8.1	6.7	9.2	6.5	4.6	5.5
Nonfatal Cases Without Lost Workdays	7.0	6.6	7.7	8.1	5.3	9.5	5.3	5.1	4.9
Lost Workdays	185.1	107.6	119.2	131.4	135.5	141.0	104.3	76.8	84.7
TRANSPORTATION AND PUBLIC UTILITIES									
Total Cases	7.8	8.8	9.4	8.1	8.8	8.2	7.2	6.9	8.9
Lost Workday Cases	4.1	4.7	5.0	4.7	5.2	5.0	4.3	3.9	4.1
Nonfatal Cases Without Lost Workdays	3.7	4.1	4.4	3.4	3.6	3.2	2.9	3.0	3.0
Lost Workdays	75.4	90.9	99.4	89.1	91.8	95.5	90.1	77.0	83.4
TRADE									
Total Cases	6.8	7.0	7.9	7.5	7.9	6.9	6.9	6.4	6.8
Lost Workday Cases	2.6	2.6	3.1	3.1	3.5	3.1	3.1	3.0	3.0
Nonfatal Cases Without Lost Workdays	4.1	4.4	4.8	4.4	4.4	3.8	3.8	3.4	3.8
Lost Workdays	40.9	37.6	43.7	40.9	40.9	46.5	63.2	40.1	42.7
WHOLESALE TRADE									
Total Cases	7.4	7.1	8.6	7.8	8.6	7.4	7.0	6.4	6.2
Lost Workday Cases	3.1	3.0	3.7	3.9	4.2	3.8	3.5	3.5	3.1
Nonfatal Cases Without Lost Workdays	4.3	4.1	4.9	3.9	4.4	3.6	3.5	2.9	3.1
Lost Workdays	42.0	41.6	59.2	43.9	45.4	44.7	62.4	43.2	41.8
RETAIL TRADE									
Total Cases	6.5	7.0	7.7	7.3	7.5	6.6	6.8	6.4	7.0
Lost Workday Cases	2.5	2.4	2.9	2.8	3.2	2.8	3.0	2.8	2.9
Nonfatal Cases Without Lost Workdays	4.1	4.6	4.8	4.5	4.3	3.8	3.8	3.6	4.1
Lost Workdays	40.6	36.3	38.3	39.9	39.3	47.1	63.5	39.0	43.1

OCCUPATIONAL INJURY AND ILLNESS INCIDENCE RATES BY INDUSTRY, VIRGINIA, 1975-1983 (continued)
INCIDENCE RATES PER 100 FULL-TIME WORKERS 2/

INDUSTRY AND TYPE OF CASE 1/	1975	1976	1977	1978	1979	1980	1981	1982	1983
TOTAL									
FINANCE, INSURANCE, AND REAL ESTATE									
Total Cases	2.1	2.1	2.0	1.8	2.2	2.7	1.9	1.9	2.3
Lost Workday Cases	.8	.8	.8	.8	.9	1.5	1.1	.7	1.1
Nonfatal Cases Without Lost Workdays	1.2	1.3	1.2	1.0	1.3	1.2	.8	1.2	1.2
Lost Workdays	9.2	8.4	7.1	10.1	18.3	13.8	32.7	8.7	17.9
SERVICES									
Total Cases	4.3	4.0	4.8	4.9	4.3	3.5	3.8	3.8	3.8
Lost Workday Cases	1.7	1.5	2.1	2.2	2.0	1.8	1.8	2.0	1.9
Nonfatal Cases Without Lost Workdays	2.6	2.5	2.8	2.7	2.3	1.7	1.9	1.8	1.9
Lost Workdays	24.8	25.9	36.3	28.1	26.4	21.1	32.1	31.2	35.0
STATE AND LOCAL GOVERNMENT									
Total Cases	6.8	7.2	7.8	9.6	8.7	8.4	7.9	8.0	8.2
Lost Workday Cases	2.7	2.9	3.3	4.3	4.3	4.0	3.9	4.1	4.1
Nonfatal Cases Without Lost Workdays	4.0	4.2	4.4	5.4	4.4	4.4	4.0	3.9	4.1
Lost Workdays	33.3	39.1	44.6	50.8	50.7	53.9	53.1	53.0	55.2
State Government:									
Total Cases	6.0	6.5	7.0	7.5	7.3	7.6	8.4	7.6	7.8
Lost Workday Cases	2.3	2.4	2.6	2.9	3.1	3.1	3.9	3.7	3.9
Nonfatal Cases Without Lost Workdays	3.7	4.1	4.4	4.6	4.2	4.5	4.5	3.9	3.9
Lost Workdays	29.7	32.1	35.6	41.9	41.2	48.7	60.9	54.5	62.9
Local Government:									
Total Cases	7.2	7.5	8.2	10.0	9.4	8.8	7.8	8.2	8.4
Lost Workday Cases	3.0	3.2	3.8	4.7	4.9	4.5	4.0	4.3	4.2
Nonfatal Cases Without Lost Workdays	4.2	4.3	4.4	5.3	4.5	4.3	3.8	3.9	4.2
Lost Workdays	35.3	42.8	49.8	51.9	55.5	56.4	49.2	52.2	50.8
GOODS-PRODUCING, NONAGRICULTURAL PRIVATE-SECTOR 4/									
Total Cases	----	----	----	13.1	12.5	12.4	11.6	10.1	10.2
Lost Workday Cases	----	----	----	5.5	5.7	5.7	5.2	4.4	4.4
Nonfatal Cases Without Lost Workdays	----	----	----	7.6	6.7	6.6	6.3	5.7	5.8
Lost Workdays	----	----	----	85.3	91.3	94.2	86.6	74.9	74.4
SERVICE-PRODUCING, NONAGRICULTURAL PRIVATE-SECTOR 4/									
Total Cases	----	----	----	6.1	6.2	5.4	5.3	5.1	5.2
Lost Workday Cases	----	----	----	2.8	2.9	2.7	2.6	2.5	2.5
Nonfatal Cases Without Lost Workdays	----	----	----	3.3	3.2	2.7	2.7	2.6	2.7
Lost Workdays	----	----	----	39.8	40.0	40.0	51.9	38.1	38.2

1/ Total cases include fatalities. Because of rounding, the difference between the total rate and the sum of the rates for lost workday cases and nonfatal cases without lost workdays does not reflect the fatality rate.

2/ The incidence rates represent the number of injuries and illnesses or lost workdays per 100 full-time workers and were calculated as:

(N/EH) x 200,000, where:
N = number of injuries and illnesses or lost workdays
EH = total hours worked by all employees during calendar year
200,000 = base for 100 full-time equivalent workers (working 40 hours per week, 50 weeks per year).

3/ Excludes farms with fewer than 11 employees since 1976.

4/ The nonagricultural private-sector goods-producing industry classification includes three industry divisions -- mining, construction, and manufacturing. The nonagricultural private-sector service-producing industry classification includes the industry divisions transportation and public utilities; trade; finance, insurance, and real estate; and services.

NOTE: Dashes indicate data that are not available.
SOURCE: The Virginia Department of Labor and Industry in cooperation with the U. S. Department of Labor, Bureau of Labor Statistics.

OCCUPATIONAL INJURY AND ILLNESS INCIDENCE RATES, BY INDUSTRY, VIRGINIA, 1982 AND 1983 1/

Industry 2/	SIC code 3/	1983 annual average employment (in thousands) 4/	Incidence rates per 100 full-time workers 5/							
			Total cases 6/		Lost workday cases		Nonfatal cases without lost workdays		Lost workdays	
			1982	1983	1982	1983	1982	1983	1982	1983
Total 7/, 9/		2,038.8	7.0	7.2	3.3	3.3	3.7	3.8	51.2	51.8
Private sector 7/		1,698.2	6.8	7.0	3.2	3.2	3.6	3.8	50.9	51.2
Agriculture, forestry, and fishing 7/		13.3	8.4	9.9	4.6	5.7	3.8	4.2	63.1	91.5
Agricultural production	01-02	n/a	9.7	10.1	5.3	5.7	4.4	4.4	59.9	88.7
Agricultural services	07	n/a	8.1	9.9	4.3	5.7	3.8	4.2	66.1	93.2
Goods-producing, nonagricultural private-sector		530.5	10.1	10.2	4.4	4.4	5.7	5.8	74.9	74.4
Mining 8/		17.5	8.5	7.9	7.0	6.5	1.4	1.3	179.9	208.9
Bituminous coal and lignite mining 8/	12	14.9	9.4	9.0	7.8	7.6	1.5	1.3	199.7	248.9
Nonmetallic minerals, except fuels 8/	14	n/a	2.3	4.1	1.6	2.9	.7	1.2	45.9	86.4
Construction		112.7	14.3	14.5	6.3	6.6	8.0	7.9	113.9	116.0
General building contractors	15	36.0	12.4	14.2	5.1	6.2	7.3	8.0	106.0	110.3
Residential building construction	152	n/a	8.8	10.4	3.7	5.2	5.1	5.2	86.2	76.5
Nonresidential building construction	154	n/a	16.0	19.0	6.4	7.7	9.6	11.3	121.7	139.3
Heavy construction contractors	16	19.0	16.4	13.0	7.2	5.9	9.2	7.1	125.9	131.5
Highway and street construction	161	n/a	12.5	11.8	6.0	6.0	6.4	5.7	134.3	94.0
Heavy construction, except highway	162	n/a	18.2	13.6	7.8	5.9	10.4	7.7	122.5	141.1
Special trade contractors	17	63.7	14.3	15.1	6.6	7.0	7.7	8.1	113.1	112.7
Plumbing, heating, air conditioning	171	n/a	15.9	17.7	6.5	7.0	9.4	10.7	94.3	107.1
Electrical work	173	n/a	14.8	15.0	5.7	5.9	9.1	9.1	95.1	89.1
Masonry, stonework, and plastering	174	n/a	14.9	16.3	7.3	8.2	7.6	8.1	122.8	127.9
Carpentering and flooring	175	n/a	10.4	10.5	6.9	5.8	3.5	4.7	85.9	101.4
Roofing and sheet metal work	176	n/a	20.8	19.1	11.2	10.5	9.6	8.6	261.8	145.7
Misc. special trade contractors	179	n/a	13.9	14.3	6.9	7.0	7.0	7.2	118.8	128.4
Manufacturing		400.3	9.2	9.3	3.8	3.8	5.4	5.4	61.1	58.6
Food and kindred products	20	38.8	13.3	12.6	6.5	6.2	6.8	6.4	106.9	99.4
Meat products	201	12.6	15.4	16.5	8.3	8.4	7.1	8.1	150.9	126.4
Bakery products	205	4.7	11.7	9.8	5.9	4.7	5.8	5.0	106.2	100.3
Beverages	208	5.4	15.7	14.6	6.6	8.0	9.1	6.6	83.3	100.8
Misc. foods and kindred products	209	n/a	9.1	8.8	4.3	3.3	4.8	5.5	70.0	43.7
Tobacco manufactures	21	16.9	5.2	4.6	3.2	2.8	2.0	1.8	47.4	47.8
Textile mill products	22	43.4	6.0	7.3	2.3	2.8	3.7	4.5	33.3	39.5
Weaving mills, synthetics	222	n/a	5.1	5.7	1.0	1.6	4.1	4.1	21.6	27.5
Knitting mills	225	16.9	8.3	11.0	3.7	4.5	4.6	6.5	33.5	47.9
Apparel and other textile products	23	31.1	6.5	6.5	1.9	2.5	4.6	4.0	27.4	36.9
Men's and boys' furnishings	232	n/a	8.3	9.2	2.8	3.9	5.5	5.3	34.5	61.9
Women's and misses' outerwear	233	n/a	6.2	5.4	1.6	2.2	4.6	3.2	16.1	25.1
Children's outerwear	236	n/a	6.0	5.9	1.5	1.7	4.5	4.2	44.1	31.2
Lumber and wood products	24	20.9	13.5	15.5	6.3	7.3	7.2	8.1	118.5	104.7
Sawmills and planing mills	242	n/a	15.9	18.2	7.4	8.3	8.5	9.9	162.8	131.5
Millwork, plywood, and structural members	243	5.6	10.9	14.2	4.7	7.3	6.2	6.9	60.6	86.4
Furniture and fixtures	25	23.2	8.2	8.4	3.0	2.9	5.2	5.5	43.3	41.3
Household furniture	251	22.1	7.5	8.3	2.6	3.0	4.9	5.3	41.7	42.1
Paper and allied products	26	14.7	8.7	7.5	3.5	3.2	5.2	4.3	55.0	60.8
Paperboard mills	263	n/a	5.8	5.1	1.7	2.2	4.1	2.9	44.0	50.8
Paperboard containers and boxes	265	3.7	9.2	11.4	3.8	5.9	5.4	5.5	54.9	85.6
Printing and publishing	27	25.2	7.7	6.9	2.9	2.8	4.8	4.1	37.4	42.9
Newspapers	271	n/a	8.1	8.2	3.2	3.8	4.9	4.4	43.8	58.0
Commercial printing	275	10.3	8.2	7.3	3.0	2.8	5.2	4.5	39.3	38.2
Chemicals and allied products	28	32.4	2.6	2.5	.9	.8	1.7	1.7	15.3	10.9
Rubber and miscellaneous plastics products	30	n/a	9.7	10.5	4.6	5.5	5.1	4.9	76.8	84.7
Miscellaneous plastics products	307	7.0	9.5	11.6	3.5	5.3	6.0	6.3	54.5	62.1
Stone, clay, and glass products	32	12.2	13.8	16.0	7.0	7.8	6.8	8.2	103.8	103.1
Concrete, gypsum, and plaster products	327	5.6	11.3	15.2	6.3	8.4	5.0	6.8	79.1	109.1
Primary metal industries	33	10.2	9.6	9.9	4.8	4.6	5.0	5.2	57.2	77.1
Fabricated metal products	34	18.3	13.5	14.6	6.1	5.7	7.4	8.9	103.3	97.7
Fabricated structural metal products	344	11.4	12.4	13.3	6.2	5.4	6.2	7.9	100.8	93.3
Machinery, except electrical	35	12.9	11.1	12.1	4.2	4.5	6.9	7.6	50.5	63.7
Construction and related machinery	353	3.1	17.8	14.8	7.5	5.3	10.3	9.5	86.7	60.6
Electric and electronic equipment	36	37.5	5.8	4.1	2.3	1.5	3.5	2.6	34.7	23.2
Communication equipment	366	12.1	5.1	2.8	2.8	1.2	2.3	1.6	48.4	21.2
Instruments and related products	38	3.4	5.2	7.5	1.9	1.9	3.3	5.6	40.8	27.9
Service-producing, nonagricultural private-sector		1,154.4	5.1	5.2	2.5	2.5	2.6	2.7	38.1	38.2
Transportation and public utilities		119.2	6.9	7.1	3.9	4.1	3.0	3.0	77.0	83.4
Railroad transportation 7/	40	13.0	10.8	8.9	6.0	4.2	4.8	4.7	72.6	58.1
Trucking and warehousing	42	26.8	10.8	11.9	6.0	6.9	4.8	5.0	130.9	147.9
Water transportation	44	4.6	22.0	14.5	11.8	9.2	10.2	5.3	654.3	381.1
Communication	48	33.4	1.3	2.9	.7	1.6	.6	1.3	9.2	24.4
Electric, gas, and sanitary services	49	18.6	5.0	4.5	2.1	2.3	2.9	2.2	35.7	44.6

OCCUPATIONAL INJURY AND ILLNESS INCIDENCE RATES, BY INDUSTRY, VIRGINIA, 1982 AND 1983 (continued)

Industry 2/	SIC code 3/	1983 annual average employment (in thousands) 4/	Incidence rates per 100 full-time workers 5/							
			Total cases 6/		Lost workday cases		Nonfatal cases without lost workdays		Lost workdays	
			1982	1983	1982	1983	1982	1983	1982	1983
Wholesale and retail trade		475.6	6.4	6.8	3.0	3.0	3.4	3.8	40.1	42.7
Wholesale trade		108.8	6.4	6.2	3.5	3.1	2.9	3.1	43.2	41.8
Wholesale trade - durable goods	50	67.9	5.7	5.3	2.9	2.4	2.8	2.9	32.7	37.7
Wholesale trade - nondurable goods	51	40.9	7.6	7.6	4.6	4.2	3.0	3.4	60.4	48.5
Retail trade		366.8	6.4	7.0	2.8	2.9	3.6	4.1	39.0	43.1
Building materials and garden supplies	52	13.4	8.7	8.8	3.8	4.0	4.9	4.8	59.9	69.7
General merchandise stores	53	53.8	7.8	7.7	3.2	2.9	4.6	4.8	45.5	31.6
Food stores	54	60.9	8.0	9.0	3.8	3.9	4.2	5.1	53.5	76.8
Automotive dealers and service stations	55	45.0	7.6	6.5	3.0	2.4	4.6	4.1	36.9	35.2
Apparel and accessory stores	56	20.2	1.4	.9	.5	.5	.9	.4	8.3	13.8
Furniture and home furnishings stores	57	18.1	5.2	4.6	3.2	2.7	2.0	1.9	36.6	54.0
Eating and drinking places	58	107.5	6.7	9.0	2.9	3.7	3.8	5.3	39.1	42.1
Miscellaneous retail	59	48.0	3.3	3.6	1.4	1.6	1.9	2.0	22.9	23.3
Finance, insurance, and real estate		109.7	1.9	2.3	.7	1.1	1.2	1.2	8.7	17.9
Banking	60	33.2	1.1	1.6	.4	.7	.7	.9	3.9	3.9
Credit agencies other than banks	61	13.4	.6	1.2	.4	.7	.2	.5	7.0	8.3
Insurance carriers	63	20.7	1.6	2.1	.2	.8	1.4	1.3	1.7	49.5
Insurance agents, brokers, and service	64	8.5	.3	.5	.1	.2	.2	.3	4.0	.7
Real estate	65	27.0	4.7	5.1	2.2	2.7	2.5	2.3	24.2	26.9
Services		449.9	3.8	3.8	2.0	1.9	1.8	1.9	31.2	25.0
Hotels and other lodging places	70	33.9	6.7	8.2	2.5	3.5	4.2	4.7	33.5	48.4
Personal services	72	26.8	2.3	2.1	1.1	.9	1.2	1.2	9.4	10.4
Business services	73	102.5	3.1	2.5	1.7	1.4	1.4	1.1	42.2	13.1
Auto repair, services, and garages	75	13.1	6.0	4.9	2.1	1.7	3.9	3.2	32.5	37.7
Miscellaneous repair services	76	5.9	6.4	5.6	2.8	2.5	3.6	3.1	31.5	48.8
Amusement and recreation services	79	14.3	10.8	6.4	4.6	1.9	6.2	4.5	51.1	34.1
Health Services	80	119.2	4.5	5.5	2.9	3.2	1.6	2.3	38.8	42.9
Legal services	81	11.2	.3	.1	.1	*	.2	.1	1.3	.1
Educational services	82	23.4	3.4	3.0	1.3	1.2	2.1	1.8	15.4	15.1
Social services	83	21.3	6.1	4.3	2.8	2.2	3.3	2.1	42.4	21.8
Miscellaneous services	89	31.7	1.2	1.0	.4	.3	.8	.7	20.4	4.7
Government 8/		340.6	8.0	8.2	4.1	4.1	3.9	4.1	53.0	55.2
State		119.9	7.6	7.8	3.7	3.9	3.9	3.9	54.5	62.9
Local		220.7	8.2	8.4	4.3	4.2	3.9	4.2	52.2	50.8

1/ In order to maintain the comparability of the 1983 survey data with the data published in previous years, a statistical method was developed for generating the 1983 estimates to represent the small-nonfarm employers in low-risk industries who were not surveyed.

2/ Industry totals (divisions, 2 - and 3 digit SIC codes) include data for industries not shown separately.

3/ Standard Industrial Classification Manual, 1972 Edition, 1977 Supplement.

4/ Annual average employment for nonagricultural industries is based on the employment and earnings survey conducted by the Bureau of Labor Statistics, in cooperation with the State agencies. The employment estimate for the services division is adjusted to exclude the employment for the nonfarm portion of agricultural services. Annual average employment for the agriculture, forestry, and fishing division is a composite of data from the employment and earnings survey and the Annual Survey of Occupational Injuries and Illnesses.

5/ The incidence rates represent the number of injuries and illnesses or lost workdays per 100 full-time workers, and were calculated as: (N/EH) X 200,000, where
N = number of injuries and illnesses or lost workdays
EH = total hours worked by all employees during calendar year
200,000 = base for 100 full-time equivalent workers (working 40 hours per week, 50 weeks per year).

6/ Fatalities are included. Because of rounding, the fatality rate is not reflected by the difference between the total rate and the sum of the rates for lost workday cases and nonfatal cases without lost workdays.

7/ Farms with fewer than 11 employees are excluded.

8/ The Mine Safety and Health Administration, U. S. Department of Labor, provided data for coal and lignite mining (SIC 12) and metal and nonmetal mining (SIC 10 and 14). The Federal Railroad Administration, U. S. Department of Transportation, provided railroad data (SIC 40).

9/ Agencies of the Federal government are excluded. They are covered in a separate reporting system.

NOTE: Dashes indicate data that do not meet publication guidelines.
n/a = data not available.
* = incidence rate less than .05

SOURCE: The Virginia Department of Labor and Industry in cooperation with the U. S. Department of Labor, Bureau of Labor Statistics.

THE MARKET BASKET
FOR THE
RICHMOND METROPOLITAN AREA
NORTHERN VIRGINIA METROPOLITAN AREA
NORFOLK-VIRGINIA BEACH-PORTSMOUTH METROPOLITAN AREA

The Virginia Department of Labor and Industry's Market Basket has been designed to measure the price change in the retail cost of a fixed quantity of foods. The cost of the Market Basket is derived by multiplying the average retail price of each item by the quantity and totaling the entire group. This permits a comparison of prices on a month-to-month basis. The Market Basket combines 40 of the 71 items priced during the same period of time each month at selected stores throughout the areas. The Market Basket represents neither the cost of food for a family of one particular size or income group, nor every change in food prices, but only an increase or decrease in the total cost of items in the Market Basket.

Revisions in the 1982 product composition and the 1983 store classification for the Market Basket rendered direct comparisons to previous years' data unuseable as all three areas were adjusted in 1982 and the Richmond and Norfolk areas were revised in 1983. The quantity consumed and the 40 commodities included in this study are listed in a table below. For a number of food items, the quantity consumed in the Market Basket is listed as a fraction or a multiple of the unit that is priced.

1 lb.	Round Steak	1 bunch	Carrots	10 qts.	Milk
1 lb.	Bacon	1 stalk	Celery	1 pt.	Ice Cream
1 lb.	Hamburger	1 can	Tuna	2 doz.	Eggs
1 lb.	Frankfurters	1 can	Corn	½ lb.	American Processed Cheese
2 lbs.	Pork Chops	1 can	Peas		
2 lbs.	Chicken	1 can	Tomatoes	2 cans	Evapor. Milk
1 lb.	Frozen Fish	1 can	Peaches	1 lb.	Margarine
1 doz.	Oranges	1 can	Soup	1 lb.	Shortening
1 lb.	Apples	1 pkg.	Fro. Green Beans	1 lb.	Coffee
2 lbs.	Bananas	5 cans	Fro. Orange Juice	5 lbs.	Sugar
10 lbs.	Potatoes	4 lbs.	Flour	1 jar	Peanut Butter
2 lbs.	Cabbage	2 bxs.	Prepared Cereal	1 10 oz.	Jar Jelly
1 head	Lettuce	1 bx.	Soda Crackers	1 ctn.	Soft Drinks
1 lb.	Onions	6 loaves	Bread		

The 1984 average Market Basket total increased in all three metropolitan areas. In the Richmond area study, the average was $64.47, a gain of 4.5 percent over the 1983 average of $61.69 while the Norfolk area averaged $63.38, an increase of 5.0 percent over the previous year's average of $60.36 and Northern Virginia's average cost for the year of $66.96 was 5.2 percent higher than the 1983 average of $63.68.

Both Richmond and Northern Virginia experienced their peak price level in the month of August with Richmond at $66.73 and Northern Virginia at $68.37 while Norfolk's high of $64.54 was reached in February. The lowest price in Northern Virginia of $65.86 occurred in May while Norfolk's low of $61.56 was in November and Richmond's low of $62.98 was recorded in December.

COMMODITY AND UNIT		RICHMOND			NORFOLK - VIRGINIA BEACH - PORTSMOUTH			NORTHERN VIRGINIA		
		Jan. 1984	Dec. 1984	Change (Cents)	Jan. 1984	Dec. 1984	Change (Cents)	Jan. 1984	Dec. 1984	Change (Cents)
CEREAL AND BAKERY PRODUCTS										
Flour	5 lb.	108.2	111.7	- 3.5	103.2	96.7	- 6.5	132.6	99.2	-33.4
Cracker Meal	9 ½ oz.	118.8	121.5	2.7	118.8	119.4	.6	115.8	129.2	13.4
Corn Flakes	12 oz.	99.9	104.9	5.0	90.1	92.2	2.1	103.9	112.5	8.6
Rolled Oats	18 oz.	100.2	110.3	10.1	97.0	97.8	.8	103.3	111.7	8.4
Rice	lb.	52.0	54.6	- 2.6	55.4	55.2	- .2	57.0	55.9	- 1.1
Bread, white	16 - 18 oz.	79.0	74.2	- 4.8	78.9	78.6	- .3	88.8	86.2	- 2.6
Vanilla Cookies	12 oz.	142.0	148.2	6.2	138.3	149.8	11.5	138.6	151.0	12.4
Crackers, soda	lb.	104.7	125.6	20.9	97.6	109.8	12.2	96.6	123.4	26.8
MEATS, POULTRY AND FISH										
Beef and Veal:										
Round Steak, U.S. Choice	lb.	305.0	314.6	9.6	300.6	319.0	18.4	366.0	346.3	-19.7
Rib Roast, U.S. Choice sm. end	lb.	368.9	387.7	18.8	401.2	395.6	- 5.6	383.3	384.2	.9
Chuck Roast, U.S. Choice	lb.	164.9	169.5	4.6	183.4	170.3	-13.1	160.6	154.7	- 5.9
Hamburger	lb.	147.2	154.6	7.4	146.0	144.9	- 1.1	147.2	152.2	5.0
Veal Cutlets, U.S. Choice	lb.	730.6	749.7	19.1	680.2	682.7	2.5	810.9	787.4	-23.5
Pork:										
Chops Center Cut	lb.	250.6	254.4	3.8	250.0	235.4	-14.6	286.1	286.0	- .1
Bacon, sliced	lb.	175.2	188.6	13.4	197.2	198.5	1.3	181.0	190.7	9.7
Ham, whole	lb.	143.6	129.5	-14.1	155.8	146.9	- 8.9	143.3	167.9	24.6
Sausage	lb.	138.8	159.8	21.0	151.1	161.9	10.8	156.7	149.3	- 7.4
Other Meats:										
Canned Ham	lb.	233.0	247.1	14.1	280.0	263.2	-16.8	275.4	283.6	8.2
Bologna Sausage	½ lb.	111.0	116.5	5.5	103.4	110.8	7.4	129.4	129.7	.3
Frankfurters	lb.	146.2	174.9	28.7	176.1	168.9	- 7.2	177.2	180.4	3.2
Fryers, dressed & drawn	lb.	80.7	75.2	- 5.5	81.6	71.1	-10.5	75.8	70.0	- 5.8
Fish:										
Ocean Perch Fillet, frozen	lb.	203.6	209.0	5.4	206.2	214.5	8.3	202.0	205.5	3.5
Haddock Fillet, frozen	lb.	257.8	263.8	6.0	273.9	276.6	2.7	276.4	267.0	- 9.4
Tuna	6 ½ oz. can	92.4	85.7	- 6.7	85.2	78.4	- 6.8	94.7	93.8	- .9
Salmon	lb. can	233.9	228.4	- 5.5	222.1	217.2	- 4.9	246.5	237.4	- 9.1
Sardines	3 3/4 oz.	94.5	94.8	.3	89.4	93.4	4.0	97.7	97.6	- .1
DAIRY PRODUCTS										
Butter	lb.	223.3	227.5	4.2	226.5	228.2	1.7	222.8	243.0	20.2
Cheese, American process	½ lb.	127.7	127.5	- .2	130.1	130.3	.2	133.1	138.3	5.2
Milk, fresh (grocery)	½ gal.	118.2	122.6	4.4	122.7	126.8	4.1	103.0	108.0	5.0
Ice Cream	½ gal.	257.0	260.0	3.0	244.5	267.6	23.1	249.0	237.7	-11.3
Milk, evaporated	14 ½ oz. can	54.6	53.2	- 1.4	52.4	52.2	- .2	66.4	61.8	- 4.6
EGGS, fresh grade A large	doz.	130.1	91.7	-38.4	126.0	90.6	-35.4	137.2	94.0	-43.2
FRUITS AND VEGETABLES										
Frozen:										
Orange Juice, concentrate	6 oz.	85.7	79.1	13.4	67.3	76.2	8.9	67.4	81.3	13.9
Lemonade, concentrate	6 oz.	41.8	1.4	40.8	41.8	1.0	40.8	40.2	- .6	
Peas	10 oz.	58.2	58.0	- .2	58.0	58.2	.2	66.1	70.7	4.6
Beans, green	9 oz.	53.1	52.4	- .7	56.7	54.9	- 1.8	59.9	67.3	7.4
Broccoli	10 oz.	65.6	66.9	1.3	64.2	66.0	1.8	74.0	79.2	5.2
Potatoes, French fried	9 oz.	42.6	45.1	2.5	40.4	44.6	4.2	51.6	49.6	- 2.0
Fresh:										
Apples, winesap	lb.	48.3	62.2	13.9	58.4	57.6	- .8	57.9	67.7	9.8
Bananas	lb.	29.7	31.1	1.4	25.2	28.1	2.9	36.5	44.0	7.5
Oranges - size 200	doz.	175.0	211.4	36.4	156.0	226.0	70.0	183.9	240.7	56.8
Beans, green	lb.	116.0	93.8	-22.2	101.1	104.4	3.3	107.5	108.1	.6
Cabbage	lb.	48.1	22.8	-25.3	39.4	21.7	-17.7	47.1	22.7	-24.4
Carrots	1 lb. cello bag	47.9	38.4	- 9.5	45.6	41.3	- 4.3	42.4	43.9	1.5
Celery	stalk	90.2	73.1	-17.1	83.3	65.0	-18.3	92.3	69.3	-23.0
Lettuce - size 48	head	85.9	60.0	-25.9	77.2	53.0	-24.2	93.5	74.8	-18.7
Onions	lb.	35.1	25.2	- 9.9	35.6	30.1	- 5.5	42.6	32.9	- 9.7
Potatoes	10 lb.	229.0	185.6	-43.4	203.6	176.4	-27.2	204.3	196.7	- 7.6
Sweet Potatoes	lb.	46.2	46.2	0.0	39.8	40.6	.8	35.5	47.2	11.7
Tomatoes	lb.	82.3	68.9	-13.4	78.7	66.0	-12.7	84.7	67.7	-17.0
Canned:										
Peaches	No. 2 ½ can	118.1	122.0	3.9	106.4	115.8	9.4	126.9	122.9	- 4.0
Fruit Cocktail	No. 303 can	87.7	93.0	5.3	84.7	91.2	6.5	93.3	89.0	- 4.3
Corn	No. 303 can	59.1	60.9	1.8	53.7	58.1	4.4	63.2	57.7	- 5.5
Tomatoes	No. 303 can	45.8	42.8	- 3.0	41.6	40.4	- 1.2	53.7	58.9	5.2
Peas, fancy	No. 303 can	60.0	63.8	3.8	55.0	56.3	1.3	65.1	59.0	- 6.1
Beets, sliced	No. 303 can	45.3	47.3	2.0	46.0	50.8	4.8	42.9	47.0	4.1
Bean Soup	11 ½ oz. can	43.6	44.4	.8	42.3	42.3	0.0	45.4	51.0	5.6
Tomato Soup	10 3/4 oz. can	30.0	31.4	1.4	27.9	29.2	1.3	32.7	32.9	.2
Baby Foods, strained	4 3/4 oz.	26.3	26.0	- .3	23.9	24.9	1.0	31.9	30.7	- 1.2
Dried:										
Navy Beans	lb.	55.0	57.6	2.6	59.2	57.1	- 2.1	60.6	60.2	- .4
BEVERAGES										
Coffee	lb.	248.0	270.9	22.9	241.9	253.6	11.7	311.4	338.6	27.2
Coffee, instant	6 oz.	314.5	357.8	43.3	309.1	336.4	27.3	385.7	430.2	44.5
Tea	48 bags	153.9	176.0	22.1	150.8	170.5	19.7	173.7	194.1	20.4
Cola Drink (6 N/R Bottles)	16 oz.	237.6	243.7	6.1	259.2	245.1	-14.1	229.3	222.4	- 6.9
FATS AND OILS										
Salad and Cooking Oil	pt.	120.6	122.9	2.3	112.8	115.2	2.4	128.5	143.6	15.1
Shortening	3 lb.	285.8	281.7	- 4.1	282.2	270.6	-11.6	293.4	322.7	29.3
Salad Dressing	pt.	117.1	133.1	16.0	114.6	127.0	12.4	133.2	155.1	21.9
Peanut Butter	16 oz.	177.0	137.6	-39.4	176.8	144.4	-32.4	193.7	176.5	-17.2
Margarine	lb.	75.0	79.2	4.2	76.8	78.3	1.5	73.8	81.5	7.7
SUGAR AND SWEETS										
Sugar, granulated	5 lb.	192.8	183.9	- 8.9	173.2	166.9	- 6.3	221.9	215.9	- 6.0
Grape Jelly	10 oz.	84.1	85.0	.9	85.2	81.7	- 3.5	93.7	90.2	- 3.5

ANNUAL SURVEY OF VIRGINIA MANUFACTURES
1983
(EMPLOYMENT AND DOLLARS ARE IN THOUSANDS)

Industry Group 1/	All Employees		Production Workers		Value Added by Manufactures 3/	Capital Expenditures 3/	Anticipated Capital Expenditures 3/
	Number (average for year) 2/	Salaries and Wages (total) 3/	Number (average for year) 2/	Wages (total) 3/			
ALL MANUFACTURING	403.6	$7,632,854	303.6	$4,925,099	$21,121,462	$1,196,198	$1,688,911
Durable Goods	182.9	3,667,632	133.2	2,253,434	7,750,302	394,015	540,058
Lumber and Wood Products	21.1	274,119	17.9	204,756	604,897	34,481	37,090
Logging Camps and Logging--Contractors Sawmills and Planing Mills	9.3	110,871	8.2	88,676	282,842	17,976	19,594
Millwork, Plywood and Structural Members	5.7	85,662	4.8	61,448	164,149	6,422	12,235
Wood Containers	1.6	16,440	1.4	12,894	33,013	1,714	1,483
Wood Buildings and Mobile Homes	2.2	29,312	1.6	18,084	54,025	1,596	1,336
Miscellaneous Wood Products	2.3	31,834	1.9	23,654	70,868	6,773	2,442
Furniture and Fixtures	23.0	284,774	19.6	209,216	579,750	29,391	21,356
Household Furniture and Office Furniture	22.1	271,955	18.9	200,426	556,368	28,715	20,660
Stone, Clay, and Glass Products	12.4	197,306	9.6	132,462	432,073	27,097	39,491
Structural Clay Products	.7	9,458	.5	6,230	19,100	2,462	687
Concrete, Gypsum, and Plaster Products	5.6	90,390	4.3	60,053	200,538	16,503	24,579
Primary Metal Industries	10.1	254,232	5.6	125,750	352,439	10,589	20,016
Fabricated Metal Products	18.3	386,453	11.7	206,504	651,589	19,660	23,246
Cutlery, Hand Tools, and Hardware	1.5	30,653	1.2	20,184	83,535	1,458	1,181
Fabricated Structural Metal Products	11.4	238,967	6.2	94,260	332,376	9,256	8,021
Machinery, except Electrical	12.9	268,052	8.8	150,891	548,688	36,167	35,274
Construction and Related Machinery	3.1	70,073	1.9	34,108	142,971	14,098	11,884
Special Industry Machinery	1.8	38,329	.8	17,499	60,266	5,030	3,129
Office and Computing Machines	1.1	25,905	.8	13,419	63,717	2,471	3,718
Refrigeration and Service Machinery	1.9	35,108	1.3	19,527	81,628	2,077	5,156
Miscellaneous Machinery, except Electrical	2.9	54,161	2.4	40,526	93,100	6,561	4,304
Electric and Electronic Equipment	38.2	910,607	21.2	404,441	2,605,962	154,489	286,993
Electrical Industrial Apparatus	10.1	261,486	6.1	155,861	562,917	35,854	58,485
Communication Equipment	12.5	277,237	6.9	118,054	694,680	61,060	83,185
Electronic Components and Accessories	7.5	208,534	2.3	32,455	526,084	26,398	112,012
Transportation Equipment	40.5	981,697	34.0	752,271	1,756,687	74,445	63,570
Instruments and Related Products	3.5	63,709	2.4	34,747	121,101	4,631	8,053
Miscellaneous Manufacturing Industries	2.9	46,683	2.4	32,396	97,116	3,065	4,969
Nondurable Goods	220.7	3,965,222	170.4	2,671,665	13,371,160	802,183	1,148,853
Food and Kindred Products	39.0	612,071	28.4	365,267	2,738,273	115,536	97,550
Meat Products	12.8	147,444	10.5	115,286	851,503	15,231	20,767
Dairy Products	2.4	46,612	1.4	22,621	132,193	6,871	6,762
Preserved Fruits and Vegetables	3.2	50,942	2.9	38,788	160,464	11,805	6,706
Grain Mill Products	1.2	18,017	.8	9,862	41,627	3,605	4,188
Bakery Products	4.8	99,489	2.4	49,372	438,704	8,540	28,286
Beverages	5.4	149,488	2.4	61,129	758,298	23,604	11,101
Miscellaneous Foods and Kindred Products	6.7	60,977	6.0	43,425	233,926	8,772	6,108
Tobacco Manufactures	17.2	471,300	12.6	315,944	2,705,782	156,843	169,335
Tobacco Stemming and Redrying	1.9	37,681	1.6	23,375	146,805	5,468	6,150
Textile Mill Products	43.4	584,843	39.0	495,263	1,277,069	82,691	61,793
Broad Woven Fabric Mills	17.1	251,128	14.9	204,585	553,293	40,077	23,994
Knitting Mills	17.2	209,833	15.8	185,703	418,634	28,564	29,693
Textile Finishing, except Wool	3.4	45,132	3.1	40,461	73,557	5,515	74
Yarn and Thread Mills	2.6	30,778	2.3	26,011	84,022	3,174	5,474
Miscellaneous Textile Goods	1.2	19,040	1.0	14,556	75,360	2,041	2,034
Apparel and Other Textile Products	32.0	320,706	28.8	254,787	887,801	20,552	16,539
Men's and Boys' Clothing	10.5	104,649	9.7	92,295	247,903	8,814	9,717
Women's and Misses' Outerwear	11.4	114,918	10.2	84,568	458,844	5,192	2,982
Women's and Children's Undergarments	2.2	17,322	1.8	14,308	40,954	390	163
Children's Outerwear	4.0	39,637	3.8	35,892	66,938	568	824
Miscellaneous Fabricated Textile Products	2.0	24,772	1.5	13,464	50,793	5,270	1,986
Paper and Allied Products	14.8	351,978	11.1	242,126	1,039,527	108,707	232,140
Paper and Paperboard, except Building Paper	7.7	221,423	5.1	142,888	781,194	85,032	212,331
Miscellaneous Converted Paper Products	3.0	47,768	2.4	35,324	112,401	7,636	7,816
Paperboard Containers and Boxes Building Paper and Board Mills	4.2	82,787	3.5	63,914	145,931	16,039	11,994
Printing and Publishing	35.4	477,991	15.5	268,703	1,204,091	81,502	78,778
Newspapers and Periodicals	9.6	159,418	3.4	45,298	387,718	27,887	18,457
Commercial Printing	10.3	209,437	8.4	153,296	439,554	44,090	45,952
Chemicals and Allied Products	32.2	810,404	21.8	485,651	2,549,772	175,908	267,326
Industrial Inorganic Chemicals	1.3	27,466	.4	8,469	86,645	21,286	32,067
Plastics Materials and Synthetics	18.8	506,626	14.1	335,306	1,323,060	109,425	156,708
Drugs	3.4	89,068	1.9	42,360	552,542	31,139	56,043
Agricultural Chemicals	.8	12,687	.5	6,052	31,302	1,813	1,765
Miscellaneous Chemical Products	4.6	106,969	2.7	54,778	188,840	7,946	14,445
Petroleum and Coal Products--Rubber and Miscellaneous Plastics Products	13.3	306,803	10.0	219,833	891,553	60,031	224,906
Miscellaneous Plastics Products	7.3	155,792	5.4	107,670	559,063	42,475	188,666
Leather and Leather Products	3.4	29,126	3.0	24,091	77,312	413	486

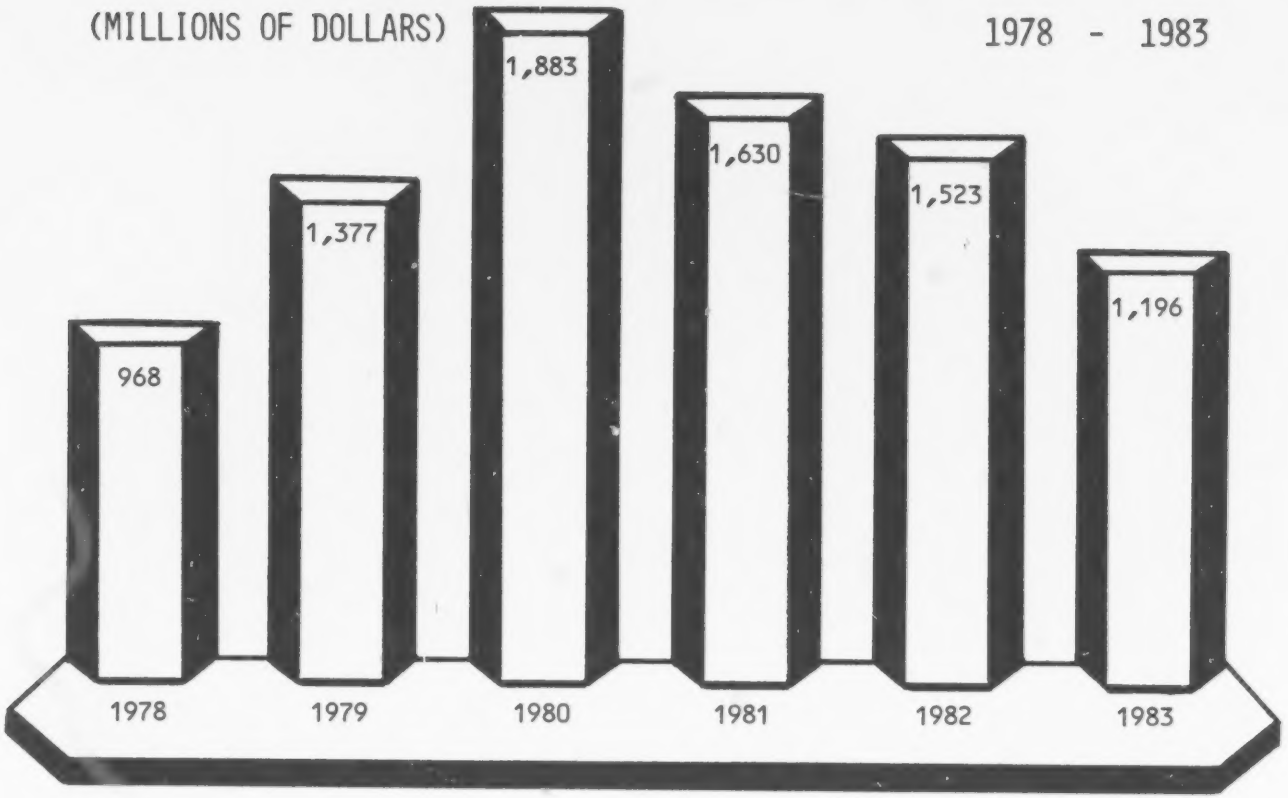
1/ Based on the 1972 edition of the Standard Industrial Classification Manual.

2/ Annual averages prepared by the Virginia Department of Labor and Industry in cooperation with the U. S. Bureau of Labor Statistics.

3/ Projected on the basis of survey employment to estimated annual average.

NOTE: Detail may not add to totals due to rounding.

VIRGINIA CAPITAL EXPENDITURES



ANNUAL SURVEY OF MANUFACTURES
BRISTOL STANDARD METROPOLITAN STATISTICAL AREA
1983
(EMPLOYMENT AND DOLLARS ARE IN THOUSANDS)

Industry Group 1/	All Employees		Production Workers		Value Added by Manufactures 3/	Capital Expenditures 3/	Anticipated Capital Expenditures 3/
	Number (average for year) 2/	Salaries and Wages (total) 3/	Number (average for year) 2/	Wages (total) 3/			
ALL MANUFACTURING	8.8	$139,933	6.4	$92,283	$390,965	$12,074	$24,427
Durable Goods	4.4	93,537	3.3	62,480	260,426	6,930	12,906
Lumber and Wood Products--Furniture and Fixtures	.2	1,300	.1	1,082	4,030	179	63
Primary Metal Industries--Fabricated Metal Products	2.0	53,609	1.5	37,655	77,060	2,716	3,666
Other Durable Goods 4/	2.2	38,628	1.7	23,743	179,336	4,035	9,177
Nondurable Goods	4.4	46,396	3.2	29,803	130,539	5,144	11,521
Food and Kindred Products	1.5	17,626	.7	7,317	51,882	2,558	7,413
Apparel and Other Textile Products	1.9	13,942	1.6	11,606	19,314	15	352
Paper and Allied Products--Printing and Publishing	.4	5,271	.3	3,604	32,466	529	981
Other Nondurable Goods 5/	.5	9,557	.5	7,276	26,877	2,042	2,775

1/ Based on the 1972 edition of the Standard Industrial Classification Manual.

2/ Annual averages prepared by the Virginia Department of Labor and Industry in cooperation with the U. S. Bureau of Labor Statistics.

3/ Projected on the basis of survey employment to estimated annual average.

4/ Includes stone, clay, and glass products; machinery, except electrical; electric and electronic equipment; transportation equipment; instruments and related products; and miscellaneous manufacturing industries.

5/ Includes textile mill products; chemicals and allied products; petroleum and coal products; and rubber and miscellaneous plastics products.

The Bristol Standard Metropolitan Statistical Area is comprised of the city of Bristol and the counties of Scott and Washington.

NOTE: Detail may not add to totals due to rounding.

ANNUAL SURVEY OF MANUFACTURES
CHARLOTTESVILLE STANDARD METROPOLITAN STATISTICAL AREA
1983
(EMPLOYMENT AND DOLLARS ARE IN THOUSANDS)

Industry Group 1/	All Employees		Production Workers		Value Added by Manufactures 3/	Capital Expenditures 3/	Anticipated Capital Expenditures 3/
	Number (average for year) 2/	Salaries and Wages (total) 3/	Number (average for year) 2/	Wages (total) 3/			
ALL MANUFACTURING	10.1	$180,567	6.8	$102,426	$435,062	$36,565	$37,242
Durable Goods	6.7	125,443	4.2	62,501	296,723	27,910	32,895
Lumber and Wood Products	.4	4,304	.3	3,196	9,303	3,961	334
Electric and Electronic Equipment	5.2	101,489	3.1	48,876	239,118	22,159	29,624
Other Durable Goods 4/	1.1	19,650	.7	10,429	48,302	1,790	2,937
Nondurable Goods	3.4	55,124	2.7	39,925	138,339	8,655	4,347
Printing and Publishing	.7	14,544	.3	7,757	35,453	585	712
Other Nondurable Goods 5/	2.7	405,580	2.4	32,168	102,886	8,070	3,635

1/ Based on the 1972 edition of the Standard Industrial Classification Manual.

2/ Annual averages prepared by the Virginia Department of Labor and Industry in cooperation with the U. S. Bureau of Labor Statistics.

3/ Projected on the basis of survey employment to estimated annual average.

4/ Includes furniture and fixtures; stone, clay, and glass products; primary metal industries; fabricated metal products; machinery, except electrical; transportation equipment; instruments and related products; and miscellaneous manufacturing industries.

5/ Includes food and kindred products; tobacco manufactures; textile mill products; apparel and other textile products; paper and allied products; chemicals and allied products; petroleum and coal products; rubber and miscellaneous plastics products; and leather and leather products.

The Charlottesville Standard Metropolitan Statistical Area is comprised of the city of Charlottesville and the counties of Albemarle, Fluvanna, and Greene.

NOTE: Detail may not add to totals due to rounding.

ANNUAL SURVEY OF MANUFACTURES
DANVILLE STANDARD METROPOLITAN STATISTICAL AREA
1983
(EMPLOYMENT AND DOLLARS ARE IN THOUSANDS)

Industry Group 1/	All Employees		Production Workers		Value Added by Manufactures 3/	Capital Expenditures 3/	Anticipated Capital Expenditures 3/
	Number (average for year) 2/	Salaries and Wages (total) 3/	Number (average for year) 2/	Wages (total) 3/			
ALL MANUFACTURING	18.5	$309,314	15.5	$231,494	$649,814	$29,178	$48,367
Durable Goods	2.8	48,654	2.4	32,926	110,992	2,769	4,721
Lumber and Wood Products	1.1	15,118	.9	10,417	34,159	800	334
Fabricated Metal Products and Machinery, except Electrical	.5	7,679	.4	5,128	11,594	121	235
Other Durable Goods 4/	1.2	25,857	1.0	17,381	65,239	1,848	4,152
Nondurable Goods	15.7	260,660	13.2	198,568	538,822	26,409	43,646
Textile Mill Products, Apparel and Other Textile Products, and Leather and Leather Products	11.6	158,537	10.3	132,174	289,024	15,627	20,761
Other Nondurable Goods 5/	4.1	102,123	2.9	66,394	249,798	10,782	22,885

1/ Based on the 1972 edition of the Standard Industrial Classification Manual.

2/ Annual averages prepared by the Virginia Department of Labor and Industry in cooperation with the U. S. Bureau of Labor Statistics.

3/ Projected on the basis of survey employment to estimated annual average.

4/ Includes furniture and fixtures; stone, clay, and glass products; primary metal industries; and electric and electronic equipment.

5/ Includes food and kindred products; tobacco manufactures; paper and allied products; printing and publishing; chemicals and allied products; petroleum and coal products; and rubber and miscellaneous plastics products.

The Danville Standard Metropolitan Statistical Area is comprised of the city of Danville and the county of Pittsylvania.

NOTE: Detail may not add to totals due to rounding.

ANNUAL SURVEY OF MANUFACTURES
LYNCHBURG STANDARD METROPOLITAN STATISTICAL AREA
1983
(EMPLOYMENT AND DOLLARS ARE IN THOUSANDS)

Industry Group 1/	All Employees		Production Workers		Value Added by Manufactures 3/	Capital Expenditures 3/	Anticipated Capital Expenditures 3/
	Number (average for year) 2/	Salaries and Wages (total) 3/	Number (average for year) 2/	Wages (total) 3/			
ALL MANUFACTURING	26.5	$528,275	18.1	$294,813	$960,733	$58,069	$65,112
Durable Goods	16.5	378,091	10.2	193,319	547,382	23,646	47,437
Lumber and Wood Products--Furniture and Fixtures	3.7	43,642	3.0	30,906	91,416	4,745	4,027
Other Durable Goods 4/	12.7	334,449	7.2	162,413	455,966	18,901	43,410
Nondurable Goods	10.0	150,184	8.0	101,494	413,351	34,423	17,675
Food and Kindred Products	1.4	27,257	.8	11,886	117,277	12,189	8,349
Textile Mill Products	1.8	29,679	1.5	23,551	67,800	9,233	-
Apparel and Other Textile Products	2.4	19,760	2.1	16,442	25,753	-	-
Paper and Allied Products	1.0	26,672	.8	19,928	52,900	1,495	3,630
Other Nondurable Goods 5/	3.5	46,816	2.7	29,687	149,621	11,506	5,696

1/ Based on the 1972 edition of the Standard Industrial Classification Manual.

2/ Annual averages prepared by the Virginia Department of Labor and Industry in cooperation with the U. S. Bureau of Labor Statistics.

3/ Projected on the basis of survey employment to estimated annual average.

4/ Includes stone, clay, and glass products; primary metal industries; fabricated metal products; machinery, except electrical; electric and electronic equipment; transportation equipment; instruments and related products; and miscellaneous manufacturing industries.

5/ Includes printing and publishing; chemicals and allied products; petroleum and coal products; rubber and miscellaneous plastics products; and leather and leather products.

The Lynchburg Standard Metropolitan Statistical Area is comprised of the city of Lynchburg and the counties of Amherst, Campbell, and Appomattox.

NOTE: Detail may not add to totals due to rounding.

ANNUAL SURVEY OF MANUFACTURES
NORFOLK-VIRGINIA BEACH-PORTSMOUTH STANDARD METROPOLITAN STATISTICAL AREA
1983
(EMPLOYMENT AND DOLLARS ARE IN THOUSANDS)

Industry Group 1/	All Employees		Production Workers		Value Added by Manufactures 3/	Capital Expenditures 3/	Anticipated Capital Expenditures 3/
	Number (average for year) 2/	Salaries and Wages (total) 3/	Number (average for year) 2/	Wages (total) 3/			
ALL MANUFACTURING	26.1	$519,162	19.7	$341,714	$1,329,541	$64,040	$78,607
Durable Goods	14.8	339,165	12.3	248,531	826,801	37,135	37,515
Lumber and Wood Products	1.3	20,161	1.2	15,072	43,668	805	1,147
Stone, Clay, and Glass Products	1.7	31,682	1.2	18,918	79,028	7,397	3,907
Fabricated Metal Products	1.0	16,428	.8	10,008	38,221	756	666
Machinery, except Electrical	1.2	23,592	1.0	14,928	82,244	4,494	4,259
Transportation Equipment	5.7	153,866	5.2	131,189	339,835	12,197	8,606
Other Durable Goods 4/	3.8	93,436	2.9	58,416	243,805	11,486	18,930
Nondurable Goods	11.3	179,997	7.4	93,183	502,740	26,905	41,092
Food and Kindred Products	5.1	73,660	3.6	37,706	209,393	7,898	6,099
Printing and Publishing	2.6	47,749	1.4	24,621	133,666	4,006	4,692
Chemicals and Allied Products	1.0	18,518	.5	5,023	50,508	9,783	13,789
Other Nondurable Goods 5/	2.5	40,070	1.9	25,833	109,173	5,218	16,512

1/ Based on the 1972 edition of the Standard Industrial Classification Manual.

2/ Annual averages prepared by the Virginia Department of Labor and Industry in cooperation with the U. S. Bureau of Labor Statistics.

3/ Projected on the basis of survey employment to estimated annual average.

4/ Includes furniture and fixtures; primary metal industries; electric and electronic equipment; instruments and related products; and miscellaneous manufacturing industries.

5/ Includes tobacco manufactures; textile mill product; apparel and other textile products; paper and allied products; petroleum and coal products; rubber and miscellaneous plastics products; and leather and leather products.

The Norfolk-Virginia Beach-Portsmouth Standard Metropolitan Statistical Area is comprised of the cities of Norfolk, Portsmouth, Virginia Beach, Chesapeake, and Suffolk.

NOTE: Detail may not add to totals due to rounding.

ANNUAL SURVEY OF MANUFACTURES
NORTHERN VIRGINIA METROPOLITAN AREA
1983
(EMPLOYMENT AND DOLLARS ARE IN THOUSANDS)

Industry Group 1/	All Employees		Production Workers		Value Added by Manufactures 3/	Capital Expenditures 3/	Anticipated Capital Expenditures 3/
	Number (average for year) 2/	Salaries and Wages (total) 3/	Number (average for year) 2/	Wages (total) 3/			
ALL MANUFACTURING	24.8	$597,978	10.7	$197,570	$1,352,392	$101,913	$156,223
Durable Goods	15.5	395,447	6.0	100,832	852,507	52,683	131,169
Stone, Clay, and Glass Products	1.0	16,613	.8	13,246	37,927	5,648	8,332
Fabricated Metal Products	1.1	21,335	.8	12,549	38,133	1,407	894
Machinery, except Electrical	1.5	32,081	1.0	17,228	69,150	2,818	4,383
Electric and Electronic Equipment	9.9	281,687	2.3	38,585	629,314	40,436	114,089
Other Durable Goods 4/	2.0	43,731	1.1	19,224	77,983	2,374	3,471
Nondurable Goods	9.3	202,531	4.7	96,738	499,885	49,230	25,054
Food and Kindred Products	1.1	21,647	.7	10,682	38,855	4,532	1,382
Printing and Publishing	6.4	143,344	3.3	72,406	370,535	38,960	15,780
Other Nondurable Goods 5/	1.7	37,540	.7	13,650	90,495	5,738	7,892

1/ Based on the 1972 edition of the Standard Industrial Classification Manual.

2/ Annual averages prepared by the Virginia Department of Labor and Industry in cooperation with the U. S. Bureau of Labor Statistics.

3/ Projected on the basis of survey employment to estimated annual average.

4/ Includes lumber and wood products; furniture and fixtures; primary metal industries; transportation equipment; instruments and related products; and miscellaneous manufacturing industries.

5/ Includes apparel and other textile products; paper and allied products; chemicals and allied products; petroleum and coal products; and rubber and miscellaneous plastics products.

The Northern Virginia Metropolitan Area is comprised of the cities of Alexandria, Fairfax, Falls Church, Manassas, and Manassas Park and the counties of Arlington, Fairfax, Loudoun, and Prince William.

NOTE: Detail may not add to totals due to rounding.

ANNUAL SURVEY OF MANUFACTURES
PETERSBURG-COLONIAL HEIGHTS-HOPEWELL STANDARD METROPOLITAN STATISTICAL AREA
1983
(EMPLOYMENT AND DOLLARS ARE IN THOUSANDS)

Industry Group 1/	All Employees		Production Workers		Value Added by Manufactures 3/	Capital Expenditures 3/	Anticipated Capital Expenditures 3/
	Number (average for year) 2/	Salaries and Wages (total) 3/	Number (average for year) 2/	Wages (total) 3/			
ALL MANUFACTURING	7.9	$176,820	6.1	$128,287	$610,073	$42,827	$39,107
Durable Goods	2.1	24,734	1.6	17,688	45,491	2,763	2,112
Lumber and Wood Products--Furniture and Fixtures	.4	5,818	.3	4,952	11,551	1,502	526
Fabricated Metal Products	.2	1,838	.1	1,358	3,453	68	111
Other Durable Goods 4/	1.5	17,078	1.1	11,378	30,487	1,193	1,475
Nondurable Goods	5.8	152,086	4.4	110,599	564,582	40,064	36,995
Food and Kindred Products	.3	5,591	.1	1,718	15,008	1,389	733
Chemicals and Allied Products	2.6	73,797	1.9	53,765	206,811	19,056	15,486
Other Nondurable Goods 5/	2.9	72,698	2.4	55,116	342,763	19,619	20,776

1/ Based on the 1972 edition of the Standard Industrial Classification Manual.

2/ Annual averages prepared by the Virginia Department of Labor and Industry in cooperation with the U. S. Bureau of Labor Statistics.

3/ Projected on the basis of survey employment to estimated annual average.

4/ Includes stone, clay, and glass products; machinery, except electrical; electric and electronic equipment; transportation equipment; instruments and related products; and miscellaneous manufacturing industries.

5/ Includes tobacco manufactures; textile mill products; apparel and other textile products; paper and allied products; printing and publishing; rubber and miscellaneous plastics products; and leather and leather products.

The Petersburg-Colonial Heights-Hopewell Standard Metropolitan Statistical Area is comprised of the cities of Petersburg, Colonial Heights, and Hopewell and the counties of Dinwiddie and Prince George.

NOTE: Detail may not add to totals due to rounding.

ANNUAL SURVEY OF MANUFACTURES
RICHMOND STANDARD METROPOLITAN STATISTICAL AREA
1983
(EMPLOYMENT AND DOLLARS ARE IN THOUSANDS)

Industry Group 1/	All Employees		Production Workers		Value Added by Manufactures 3/	Capital Expenditures 3/	Anticipated Capital Expenditures 3/
	Number (average for year) 2/	Salaries and Wages (total) 3/	Number (average for year) 2/	Wages (total) 3/			
ALL MANUFACTURING	54.8	$1,319,483	36.0	$778,658	$4,841,930	$288,117	$487,670
Durable Goods	14.6	340,516	8.0	163,521	602,701	38,790	58,822
Lumber and Wood Products	1.3	18,313	1.0	11,688	36,513	1,862	2,124
Furniture and Fixtures	.9	14,934	.6	10,240	33,222	862	1,399
Stone, Clay, and Glass Products	1.1	18,079	.7	8,158	26,907	1,736	1,326
Fabricated Metal Products	1.7	39,313	1.2	25,065	71,859	2,412	5,297
Machinery, Except Electrical	2.1	50,716	1.1	22,391	75,405	6,048	3,892
Other Durable Goods 4/	7.5	199,161	3.4	85,979	358,795	25,870	44,784
Nondurable Goods	40.2	978,967	27.9	615,137	4,239,229	249,327	428,848
Food and Kindred Products	4.0	68,598	2.6	43,256	450,206	4,992	17,978
Tobacco Manufactures	13.9	395,171	9.7	255,176	2,305,783	135,573	146,680
Apparel and Other Textile Products	2.0	26,742	1.7	17,666	35,316	446	2,166
Paper and Allied Products	4.2	92,393	3.1	62,503	214,046	20,370	27,709
Printing and Publishing	5.8	122,090	4.0	78,456	280,751	16,932	20,735
Chemicals and Allied Products	8.1	227,120	5.1	121,752	763,302	49,323	76,872
Other Nondurable Goods 5/	2.1	46,853	1.7	36,328	189,825	21,691	136,708

1/ Based on the 1972 edition of the Standard Industrial Classification Manual.

2/ Annual averages prepared by the Virginia Department of Labor and Industry in cooperation with the U. S. Bureau of Labor Statistics.

3/ Projected on the basis of survey employment to estimated annual average.

4/ Includes primary metal industries; electric and electronic equipment; transportation equipment; instruments and related products; and miscellaneous manufacturing industries.

5/ Includes rubber and miscellaneous plastics products and leather and leather products.

The Richmond Standard Metropolitan Statistical Area is comprised of the city of Richmond and the counties of Henrico, Chesterfield, Hanover, Charles City, Goochland and Powhatan.

NOTE: Detail may not add to totals due to rounding.

ANNUAL SURVEY OF MANUFACTURES
ROANOKE STANDARD METROPOLITAN STATISTICAL AREA
1983
(EMPLOYMENT AND DOLLARS ARE IN THOUSANDS)

Industry Group 1/	All Employees		Production Workers		Value Added by Manufactures 3/	Capital Expenditures 3/	Anticipated Capital Expenditures 3/
	Number (average for year) 2/	Salaries and Wages (total) 3/	Number (average for year) 2/	Wages (total) 3/			
ALL MANUFACTURING	19.6	$363,928	13.8	$230,650	$854,471	$77,872	$41,097
Durable Goods	10.6	213,225	7.3	134,226	406,000	31,412	23,413
Furniture and Fixtures	1.5	16,963	1.1	10,502	26,234	9,727	1,819
Primary Metal Industries-- Fabricated Metal Products	2.2	41,371	1.7	28,581	58,124	2,264	2,387
Machinery, Except Electrical	1.1	28,494	.8	14,707	39,549	9,548	7,441
Other Durable Goods 4/	5.8	126,397	3.8	80,436	282,093	9,873	11,766
Nondurable Goods	8.9	150,703	6.5	96,424	448,471	46,460	17,684
Food and Kindred Products	1.9	32,626	1.0	13,751	83,037	13,055	8,002
Apparel and Other Textile Products	1.8	16,773	1.6	12,749	21,914	215	-
Printing and Publishing	.9	15,630	.4	6,924	30,920	1,101	1,510
Other Nondurable Goods 5/	4.3	85,674	3.5	63,000	312,600	32,089	8,172

1/ Based on the 1972 edition of the Standard Industrial Classification Manual.

2/ Annual averages prepared by the Virginia Department of Labor and Industry in cooperation with the U. S. Bureau of Labor Statistics.

3/ Projected on the basis of survey employment to estimated annual average.

4/ Includes lumber and wood products; stone, clay, and glass products; electric and electronic equipment; transportation equipment; instruments and related products; and miscellaneous manufacturing industries.

5/ Includes paper and allied products; chemicals and allied products; and rubber and miscellaneous plastics products

The Roanoke Standard Metropolitan Statistical Area is comprised of the cities of Roanoke and Salem and the counties of Roanoke, Botetourt, and Craig.

NOTE: Detail may not add to totals due to rounding.

EXPLANATION OF TERMS

The survey of manufactures, which is conducted annually for Virginia and its metropolitan areas, is designed to present such important economic indicators as employment, salaries, wages, value added by manufactures, and capital expenditures. Because much of these data are unavailable until well after the end of the calendar year and must then be collected and edited by the Department before tabulation and publication, this study cannot be used as an instantaneous year-end review. The additional time, however, permits the construction of a more accurate representation of the economy during the survey year than would otherwise be possible. In order to provide statistics by industry group, in addition to the State and SMSA totals, each manufacturing firm has been assigned an industry code based on the Standard Industrial Classification Manual. Publication of statistics for industry groups in which the employment is dominated by a single firm might indirectly reveal confidential data for that firm; these industry groups have been combined with other industry groups before publication.

Totals for industry groups with less than 100 percent response are estimated on the basis of an employment factor. Since responding companies accounted for 57.1 percent of Virginia's estimated total manufacturing employment in 1983, published figures should closely approximate data that would result from a complete canvass. Statistical data have been obtained from 1,667 manufacturing plants including most of the large plants and a representative sample of the many smaller plants.

"Value Added by Manufactures" approximates the value created in the manufacturing process and is obtained by subtracting from the net selling value of products manufactured the cost of contract work and cost of materials, which includes components, supplies, containers for products, fuel and electrical energy consumed during the year.

The term "All Employees" includes all classes of employees (administrative, supervisory, clerical, professional, technical, sales, delivery, installation, construction and service personnel, as well as operating and related workers) employed full or part-time by the establishment. "Wages and Salaries" are defined as gross earnings of employees, including commissions, dismissal pay, nonproduction bonuses, vacation and sick leave pay, and compensation of any kind, prior to such deductions as employees' social security contributions, withholding taxes, union dues, group insurance and savings bonds.

"Production Workers" is restricted to include working foremen and all nonsupervisory workers engaged in production work or other services closely allied to production operations.

"Capital Expenditures" includes expenditures for construction, new machinery and new equipment (includes major alterations and capitalized repairs but excludes expenditures for land). Also included are expenditures chargeable to fixed assets accounts for which depreciation accounts are maintained and excludes used plant and equipment acquired from others. This information is available for the past calendar year. Anticipated capital expenditures for the current year is also published.

DIVISION OF

MINES AND QUARRIES

The Division of Mines and Quarries is charged with the administration and enforcement of The Mining Laws of Virginia, as specified in Title 45.1 of the Virginia Code. The primary mission of the Division is to protect the lives and physical well-being of all persons employed at mines and quarries within the Commonwealth through the regular inspection of all mines and quarries and the enforced compliance by operators with Virginia's mine safety requirements. The Division is also charged under Title 45.1 with the responsibility and given authority to administer and enforce laws pertaining to the exploration and production of oil, gas, and geothermal resources within the Commonwealth. Pursuant to these statutory responsibilities, the Division conducts inspections of all mines and quarries in the Commonwealth, investigates accidents and fatalities, monitors oil and gas and geothermal exploration and production to ensure compliance with state law, conducts training classes, and tests and certifies persons for employment in mines. Effective January 1, 1985 this Division was incorporated into the Department of Mines, Minerals, and Energy.

INSPECTION ACTIVITIES

1984

	Coal	Metal/Nonmetal
Regular Inspections	2,031	924
Special Inspections	520	401
Roof Inspections	450	-
Accident Investigations	53	8
Refuse Inspections	11	-
Metal/Nonmetal	-	2
Total Inspections	3,065	1,335
Violations	4,761	837
Closure Orders	179	30

MINER EDUCATION AND TRAINING ACTIVITIES

1984

Electrical, Underground, and Surface	990
Electrical Retraining, Underground, and Surface	64
Mine Foremanship Underground	451
Shot Firer Underground	103
First Aid and Accident Prevention	304
Annual Refresher Training	517
Mine Rescue Training	19
New Miner Training	40
Blasters Safety Class	11
Advanced First Aid	17
Mine Safety Training	84
Surface Foremanship	70
Surface Blasters	37
Competent to Use a Methane Spotter	5
Instructors Training	12
Supervisors Training	91
Total	2,815

CERTIFICATES ISSUED

1984

First Class Mine Foreman	385
Electrical-Underground and Surface	343
Surface Coal Mine Foreman	89
Fire Boss	51
Preparation Plant Foreman	61
Surface Blaster	84
Underground Shot Firer	156
Hoisting Engineer	6
Top Person	3
Automatic Elevator Operator	68
Dock Foreman	2
Mine Inspector	1
First Class Shaft Slope Foreman	15
Surface Foreman, Metal and Nonmetallic	54
Surface Foreman, Open Pit	29
Underground Foreman-Metal and Nonmetallic	5
Electrician-Metal and Nonmetallic	2
Total	1,354

APPROVED COMPETENT PERSON CARDS AND PERMITS

1984

First Class Mine Foreman	15
Preparation Plant Foreman	3
Surface Coal Mine Foreman	10
Total Issued	28

VIRGINIA NATURAL GAS PRODUCTION (MCF)

1984

County	First Quarter 1984	Second Quarter 1984	Third Quarter 1984	Fourth Quarter 1984	Totals Quarter 1984
Buchanan	998,415	915,808	1,051,926	730,267	3,696,416
Dickenson	802,906	926,968	911,331	1,062,279	3,703,484
Rockingham	7,584	20,262	6,469	360	34,675
Russell	489	363	437	307	1,596
Scott	66,576	5,426	80	46,464	118,546
Tazewell	141,124	155,645	190,487	176,922	664,178
Washington	48,693	6,092	0	47,434	102,219
Wise	78,134	99,136	95,518	334,445	607,233
Totals	2,143,921	2,129,700	2,256,248	2,398,478	8,928,347

NATURAL GAS DELIVERY TO PIPELINES (MCF)

1984

Quarter	Columbia Gas Transmission Corp 1984	Consolidated Gas Supply Corp 1984	East Tennessee 1984	Kentucky-West Virginia Gas Co 1984	Total Gas To Pipelines 1984
First	1,147,900	241,763	115,219	635,935	2,140,817
Second	1,113,486	249,719	7,918	752,741	2,123,864
Third	1,288,490	232,142	0	733,594	2,254,226
Fourth	1,120,922	213,567	91,723	956,396	2,382,608
Total	4,670,798	937,191	214,860	3,078,666	8,901,515
Field and local use in Buchanan County					6,642
Field and local use in Russell County					1,596
Field and local use in Scott and Washington County					5,905
Field and local use in Wise County					12,689
Total					26,832

VIRGINIA OIL AND GAS PRODUCTION, EXPLORATION AND DEVELOPMENT
SUMMARY
1984

BY COUNTY

COUNTY	PRODUCING WELLS 1984	VOLUME PRODUCED (MCF) 1984
Buchanan	149	3,696,416
Dickenson	166	3,703,484
Rockingham	3	34,675
Russell	1	1,596
Scott	4	118,546
Tazewell	23	664,178
Washington	6	102,219
Wise	73	607,233
Totals	425	8,928,347

BY COMPANY

COMPANY	PRODUCING WELLS 1984	VOLUME PRODUCED (MCF) 1984
ANR Production Company	63	242,338
Ashland Exploration, Inc.	39	623,512
Cabot Corporation	1	20,153
Columbia Gas Transmission Corp.	132	3,920,792
Consol-Ray Resources	14	349,580
Early Grove Gas Company	10	220,765
W. E. Elliott	2	18,106
NRM Petroleum	6	207,123
P&S Oil & Gas	6	43,092
Panther Creek Ltd.	2	49,953
Peake Operating	1	26,140
Penn-Va Resources	1	773
Philadelphia Oil Company	133	2,936,519
Pine Mountain Oil & Gas	9	143,743
R&B Petroleum	2	19,724
James F. Scott Oil & Gas	1	71,359
Yankee Exploration Co.	3	34,675
TOTALS	425	8,928,347

PRODUCTION BY COMPANY AND FIELD
1984

FIELD	COMPANY	NO. OF PRODUCING WELLS 1984	PRODUCTION (BBLS) 1984
Rose Hill			
	Pride Oil Company	1	2,484
	Stonewall Gas Company	2	3,941
TOTAL		3	6,435
Ben Hur			
	APACO Petroleum Company	5	5,576
	Ben Hur Oil Company	5	3,884
	Eastern States Exploration	1	5,601
	Mountain Empire Oil and Gas	1	1,224
	Penn Virginia Resources	3	1,205
	Newton Steele, Inc.	1	1,078
	Raintree Oil Company	5	2,034
	Stonewall Gas Company	1	490
	*Virginia Oil and Gas	2	849
	Witt Oil	1	2,708
TOTAL		**23	24,649
Knox			
	Stonewall Gas Company	1	1,114
	ARCO Exploration	1	86
TOTAL		2	1,200
Big Lime			
	ANR Production (Lee)	1	280
	ANR Production (Wise)	3	136
TOTAL		4	416
Clinch			
	Witt Oil	1	140
TOTAL		1	140
GRAND TOTAL		35	32,840

*Virginia Oil and Gas sold wells to Penn Virginia Resources in October of 1984
**Reflects the total number of wells (only counting Virginia Oil and Gas Wells once)

NATURAL GAS PRODUCTION BY COUNTY
1984

COUNTY	COMPANY	PRODUCING WELLS	VOLUME PRODUCED (MCF)
Buchanan	Ashland Exploration, Inc.	39	623,512
	Cabot Corporation	1	20,153
	Columbia Gas Transmission Corp.	94	2,726,443
	Panther Creek Ltd. Partnership	2	49,953
	NRM Petroleum	6	207,123
	Peake Operating	1	26,140
	PNS Oil and Gas	6	43,092
	Total	149	3,696,416 Mcf
Dickenson	Columbia Gas Transmission Corp.	32	970,834
	W. E. Elliott	2	18,106
	Philadelphia Oil Company	124	2,572,397
	Pine Mountain Oil & Gas	8	142,147
	Total	166	3,703,484
Rockingham	Yankee Exploration	3	34,675
	Total	3	34,675
Russell	Pine Mountain Oil & Gas	1	1,596
	Total	1	1,596
Scott	Early Grove Gas Company	4	118,546
	Total	4	118,546
Tazewell	Columbia Gas Transmission	6	223,513
	Consol-Ray Resources	14	349,580
	R & B Petroleum	2	19,724
	James F. Scott	1	71,359
	Total	23	664,176
Washington	Early Grove Gas Company	6	102,219
	Total	6	102,219
Wise	ANR Production Company	63	242,338
	Penn-Va Resources*	1	773
	Philadelphia Oil Company	9	364,122
	Total	73	607,233

*Sold to ANR 7/85

CRUDE OIL QUARTERLY PRODUCTION BY FIELD

1984

QUARTER 1984	BEN HUR 1984	ROSE HILL 1984	KNOX 1984	BIG LIME 1984	CLINCH 1984	TOTALS
First	7,152	2,372	296	25	35	9,880
Second	4,939	1,559	314	20	35	6,867
Third	5,768	1,191	263	156	35	7,413
Fourth	6,790	1,313	327	215	35	8,680
Total	24,649	6,435	1,200	416	140	32,840

ESTIMATED NATURAL GAS RESERVES IN VIRGINIA

1984

County	Producing Wells No. of Wells 1984	Producing Wells By Mcf Remaining Reserves 1984	Shut in Wells No. of Wells 1984	Shut in Wells By Mcf Remaining Reserves 1984	No. of Wells 1984	By Mcf Remaining Reserves 1984
Buchanan	149	35,866,454	10	3,266,558	159	39,133,012
Dickenson	166	69,838,590	17	989,625	183	70,828,215
Lee			3	650,000	3	650,000
Rockingham	3	551,325	2	200,000	5	751,325
Russell	1	94,810			1	94,810
Scott	6	14,900,000	3	371,000	9	15,271,000
Tazewell	23	4,519,911	1	88,000	24	4,607,911
Washington	4	14,900,000	1	1,000,000	5	15,900,000
Wise	73	49,733,156	16	4,500,000	89	54,233,156
Total	425	190,404,246	53	11,065,183	478	201,469,429

WELL CLASSIFICATION

1984

County	Development 1984	Exploratory 1984	OWDD 1984	Totals 1984
Buchanan	1	0	0	1
Dickenson	5	0	0	5
Lee	6	4	0	10
Scott	3	0	0	3
Tazewell	1	0	0	1
Washington	1	1	0	2
Wise	42	4	0	46
Total	59	9	0	68

FOOTAGE DRILLED

1984

County	Development 1984	Exploratory 1984	Total 1984
Buchanan	6,934	0	6,934
Dickenson	26,688	0	26,688
Lee	9,889	16,887	26,776
Scott	11,893	0	11,893
Tazewell	5,576	0	5,576
Washington	4,217	5,290	9,507
Wise	230,638	24,234	254,872
Totals	295,835	46,411	342,246

ACREAGE UNDER LEASE FOR OIL AND GAS IN VIRGINIA
1984

Company	Developed 1984	Undeveloped 1984	Undeveloped Federal 1984	Total 1984
AMOCO		218,000		218,000
ANR Production Company	24,000	92,800	5,200	122,000
APACO	250	2,000		2,250
ARCO	184	218,663	97,527	316,374
Ashland Exploration	8,547	5,233		13,780
Bartlett Energy		1,000		1,000
Ben Hur Oil Company	112	2,993		3,105
BMW Resources		1,000		1,000
Cabot Corporation	300	17,199		17,499
Chevron, U.S.A. Incorporated		102,519	108,479	210,998
Cities Services	160	6,238		6,398
CNG Development		29,989		29,989
Columbia Gas Transmission Corporation	45,414	227,099		272,513
Consolidated Gas Supply	8,190	73		8,263
Early Grove Gas Company	865	18,636		19,501
Eastern States Exploration	80	1,500		1,580
Elliott, W. E.	192	200		392
Exxon Corporation		28,460		28,460
Gulf Oil Corporation		179,391	112	179,503
Highlands Resources	150	30,000		30,150
Home Petroleum		94,718		94,718
Howard Brothers		6,000		6,000
Ketal Oil Producing Company		35,869	1,549	37,418
Louisiana Land and Company		78,000		78,000
Mountain Empire Gas and Oil Corporation	15	4,985		5,000
NRM Petroleum	3,708			3,708
New River Gas Company		32,534		32,534
Okmar Oil Company		2,391		2,391
Oxley Petroleum Company		3,897		3,897
P & S		8,629		8,629
Penn Virginia Resources (Controlled)	258	5,593		5,851
Pennzoil Company	150	150		300
Peake Operating	107	101		208
Philadelphia Oil Company	51,891	182,654		234,545
Phillips Petroleum Company		199,573		199,573
Pine Mountain (Pittston)	1,500	214,000		215,500
Pride Oil Company		8,253		8,253
R & B	400	2,600		3,000
Royal Resources Corporation		56,286		56,286
James F. Scott	175	120		295
Shell Oil Company		68,000		68,000
Southfork Enterprises		15,000		15,000
Sonat Exploration		1,435		1,435
Steele Brothers	22	448		470
Stonewall Gas Company	345	7,959	17,000	25,304
Sun Exploration Company		214,000	28,000	242,000
Tennessee Land & Exploration		7,000		7,000
Texaco		9,070		9,070
Union Texas		293,736	82,581	376,317
Witt	30	220		250
Wyatt & Saltzstein	2	498		500
Yankee Exploration	155	11,600		11,755
Total	147,202	2,748,312	340,448	3,235,962

SUMMARY OF VIRGINIA DRILLING
1984

County	Operator	Lease	Well Class.	Well No.	Total Depth	Formation T.D.	Producing Formation	Initial Open Flow (MCF/BOD)	Final Open Flow (MCF/BOD)	Remarks
Buchanan	Ashland Exp.	Lon Rodgers	Dev.	L. Rodgers #2	6934	Devonian	Big Lime	51	440	
							Devonian		762	
Dickenson	Philadelphia Oil Company	Pittston Res.	Dev.	P-139	5392	Devonian	Weir		189	
							Berea	26	377	
	Philadelphia Oil Company	Pittston Res.	Dev.	P-141	5278	Devonian	Berea	0	377	
	Philadelphia Oil Company	VICC Land Co.	Dev.	P-147	5311	Devonian	Berea	47	762	
	Philadelphia Oil Company	Pittston Res.	Dev.	P-162	5030	Devonian	Berea	119	1302	
	Philadelphia Oil Company	VICC Land Co.	Dev.	P-146	5677	Devonian	Berea	0	247	
Lee	ARCO Exploration	Morgan Hensley	Exp.	Hensley #1	6425	Mid Ordo-vician	Trenton		14 BOD	
							Knox	0	36 BOD	
	B & T Drilling Co.	William Ely	Exp.	Ely #4	2895	Trenton				Plugged, Abandoned
	Gulf Exploration	Ronnie Montgomery	Exp.	Montg. #1	5560	Ordovidian	None			Plugged, Abandoned Non-Commercial
	Morgan Gold Hydrocarbon	Gibson	Exp.	Elohiem #1	2002	Knox	Knox			Awaiting Eval.
	Newton Steele, Inc.	Young	Dev.	Young #1	680					Plugged, Abandoned
	Newton Steele, Inc.	Collins	Dev.	Collins #1	600					Plugged, Abandoned
	Newton Steele, Inc.	Young	Dev.	Young #2	3150	Trenton	Trenton	Show	28 BOD	
	Tenn. Land and Exploration	Rhinehart	Dev.	TLEC #1	2009	Mocasin	Trenton			Plugged, Abandoned
	Witt Oil Drilling	Grizzle	Dev.	Grizzle #1	1550	Trenton	Trenton		20 BOD	
	Stonewall Gas Co.	Hargroves	Dev.	Hargroves #1	1939	Trenton	None			Awaiting Eval.
Scott	Early Grove Gas Company	Frank Malone	Dev.	Malone #1	4090	Price	Little Val.	750	3106	
							Price		50	
	Early Grove Gas Company	Michael Duerr	Dev.	Duerr #1	3779	Price	Price	2000		Awaiting Eval.
	Early Grove Gas Company	Goldie Hensley	Dev.	Hensley #1	4024	Price	Price	158	730	
Tazewell	James Scott Oil & Gas	Altizer	Dev.	S-410	5576	Devonian	Devonian	0	496	
Washington	Early Grove Gas Company	D. Dorton	Dev.	Dorton #1	4217	Price	Little Vall. Show		300	
	Early Grove Gas Company	Hettinger	Exp.	Hettinger #1	5290	McCrady	Little Valley		Awaiting Eval.	
Wise	ANR Production Company	Penn-Va Resources	Dev.	10020	5700	Corniferous	Big Lime		60	
							Weir		158	
							Devonian		119	
	ANR Production Company	Penn-Va Resources	Dev.	10021	5648	Corniferous	Weir		1971	
							Devonian		119	
	ANR Production Company	Penn-Va Resources	Dev.	10022	5216	Corniferous	Big Lime		80	
							Weir		102	
							Devonian		60	
	ANR Production Company	Penn-Va Resources	Dev.	10024	6322	Corniferous	Weir		1556	
							Berea U. Devonian		411	
							L. Devonian		84	
	ANR Production Company	Penn-Va Resources	Dev.	10025	5680	Corniferous	Big Lime		311	
							Weir		440	
							Devonian		260	
	ANR Production Company	Penn-Va Resources	Dev.	10027	5825	Corniferous	Big Lime		119	
							Weir		0	
							Devonian		324	
	ANR Production Company	Penn-Va Resources	Dev.	10028	5550	Corniferous	Weir		539	
							Devonian		207	
	ANR Production Company	Penn-Va Resources	Dev.	10029	5845	Corniferous	Weir		146	
							Devonian		127	
	ANR Production Company	Penn-Va Resources	Dev.	10030	1837	Norton				Twist off P & A
	ANR Production Company	Penn-Va Resources	Dev.	10031	2253	Norton				Twist off P & A
	ANR Production Company	Penn-Va Resources	Dev.	10030A	5766	Corniferous	Big Lime		492	
							Weir		381	
							Berea		210	
	ANR Production Company	Penn-Va Resources	Dev.	10031A	5520	Corniferous	Big Lime		880	
							Weir		696	
							Devonian		146	
	ANR Production Company	Penn-Va Resources	Dev.	10032	5625	Corniferous	Big Lime		332	
							Weir		1283	
							Devonian		231	
	ANR Production Company	Penn-Va Resources	Dev.	10039	5715	Corniferous	Big Lime		15	
							Weir		1255	
							Berea		1113	
							Devonian		84	
	ANR Production Company	Penn-Va Resources	Dev.	10040	5675	Corniferous	Big Lime		386	
							Weir		1730	
							Berea		169	
							Devonian		146	

SUMMARY OF VIRGINIA DRILLING - 1984 (Continued)

County	Operator	Lease	Well Class.	Well No.	Total Depth	Formation T.D.	Producing Formation	Initial Open Flow (MCF/BOD)	Final Open Flow (MCF/BOD)	Remarks
Wise	ANR Production Company	Penn-Va Resources	Dev.	10043	5368	Corniferous	Big Lime		996	
							Weir		1237	
							Berea		231	
							Devonian		215	
	ANR Production Company	Penn-Va Resources	Dev.	10044	6061	Corniferous	Big Lime		84	
							Weir		582	
							Berea		146	
							Devonian		202	
	ANR Production Company	Penn-Va Resources	Dev.	10045	5590	Corniferous	Big Lime		1639	
							Weir		1704	
	ANR Production Company	Penn-Va Resources	Dev.	10048	5648	Corniferous	Weir		1858	
							Berea		94	
							Devonian		177	
	ANR Production Company	Penn-Va Resources	Dev.	10051	5490	Corniferous	Big Lime		44	
							Weir		179	
							Berea		119	
							Devonian		119	
	ANR Production Company	Penn-Va Resources	Dev.	10052	5175	Corniferous	Big Lime		30	BOD
									60	MCF
	ANR Production Company	Penn-Va Resources	Dev.	10053	5778	Corniferous	Big Lime		223	
							Weir		35	
							Berea		215	
							Devonian		189	
	ANR Production Company	Penn-Va Resources	Dev.	10054	5530	Corniferous	Big Lime		84	
							Weir		179	
							Berea		174	
							Devonian		163	
	ANR Production Company	Penn-Va Resources	Dev.	10055	5965	Corniferous	Big Lime		127	
							Berea		103	
							Devonian		60	
	ANR Production Company	Penn-Va Resources	Dev.	10056	5543	Corniferous	Berea		189	
							Devonian		60	
	ANR Production Company	Penn-Va Resources	Dev.	10058	5677	Corniferous	Big Lime		696	
							Weir		713	
							Devonian		73	
	ANR Production Company	Penn-Va Resources	Dev.	10059	5630	Corniferous	Big Lime		146	
							Weir		959	
							Devonian		133	
	ANR Production Company	Penn-Va Resources	Dev.	10060	5797	Corniferous	Weir		934	
							Devonian		412	
	ANR Production Company	Penn-Va Resources	Dev.	10061	5675	Corniferous	Weir		746	
	ANR Production Company	Penn-Va Resources	Dev.	10062	5365	Corniferous	Big Lime		438	
							Weir		561	
							Devonian		1730	
	ANR Production Company	Penn-Va Resources	Dev.	10063	5615	Corniferous	Big Lime		133	
							Devonian		189	
	ANR Production Company	Penn-Va Resources	Dev.	10064	6010	Corniferous	Big Lime		73	
							Berea		84	
							Devonian		146	
	ANR Production Company	Penn-Va Resources	Dev.	10065	5566	Corniferous	Berea		158	
							Devonian		94	
	ANR Production Company	Penn-Va Resources	Dev.	10066	5500	Corniferous	Big Lime		84	
							Weir		628	
							Berea		103	
							Devonian		103	
	ANR Production Company	Penn-Va Resources	Exp.	10067	5550	Corniferous	Weir		531	
	ANR Production Company	Penn-Va Resources	Dev.	10071	5510	Corniferous	Weir		207	
							Devonian		103	
	ANR Production Company	Penn-Va Resources	Dev.	10072	5525	Corniferous	Big Lime		793	
							Weir		582	
							Berea		146	
							Devonian		84	
	ANR Production Company	Penn-Va Resources	Dev.	10074	6289	Corniferous	Weir		462	
							Berea		253	
	ANR Production Company	Penn-Va Resources	Dev.	10075	5619	Corniferous	Weir		660	
							Berea		1592	
							Devonian		94	
	ANR Production Company	Penn-Va Resources	Dev.	10076	6562	Corniferous	Big Lime		1858	
							Weir		1424	
							Berea		413	
							Devonian		133	
	ANR Production Company	Penn-Va Resources	Exp.	10077	6808	Corniferous	Weir		805	
							Berea		184	
							Devonian		103	
	ANR Production Company	Penn-Va Resources	Exp.	10078	6089	Corniferous	Big Lime		133	
							Berea		179	
							Devonian		140	
	ANR Production Company	Penn-Va Resources	Dev.	10079	5425	Corniferous	Berea		84	
							Devonian		112	
	ANR Production Company	Penn-Va Resources	Exp.	10081	5787	Corniferous	Weir		307	
	ANR Production Company	Penn-Va Resources	Dev.	10085	5185	Corniferous	Big Lime		823	
							Weir		492	
							Berea		315	
							Devonian		146	
	ANR Production Company	Penn-Va Resources	Dev.	10086	5373	Corniferous	Big Lime		42	
							Berea		127	
							Devonian		119	

SUMMARY OF COAL MINING IN VIRGINIA

1984

	Buchanan	Dickenson	Lee	Russell	Scott	Tazewell	Wise	Total
Tonnage	15,508,611	7,148,899	2,043,687	1,183,541	19,140	2,230,045	13,290,830	41,424,753
Auger	96,797	15,881	10,607	114,833	0	[illegible]	111,658	349,776
Strip	822,531	927,045	66,397	55,739	4,277	64,098	5,019,408	6,959,495
Tipple	3,792,108	2,509,063	741,778	378,041	0	799,436	2,188,074	10,408,500
Truck	10,797,175	3,696,910	1,224,905	634,[illegible]	14,863	1,366,511	5,971,690	23,706,982
Tons Mined By:								
Machine	6,454,324	2,771,847	373,639	737,032	7,053	891,549	6,183,427	17,418,871
Auger	96,797	15,881	10,607	114,833	0	[illegible]	11,658	349,776
Strip	822,531	927,045	66,397	55,739	4,277	64,098	5,019,408	6,959,495
Tipple	204,129	0	0	0	0	[illegible]	0	204,129
Truck	5,330,867	1,828,921	296,635	566,460	2,776	827,451	1,052,361	9,905,471
Continuous Miner	7,021,030	3,689,173	1,669,968	378,041	12,087	1,338,496	6,830,509	210,939,304
Tipple	1,562,051	1,821,184	741,778	378,041	0	799,436	1,911,180	7,213,670
Truck	5,458,979	1,867,989	928,190	[illegible]	12,087	539,060	4,919,329	13,725,634
Hand	7,329	0	[illegible]	68,468	0	[illegible]	0	75,877
Truck	7,329	0	[illegible]	68,468	0	[illegible]	0	75,877
Longwall	2,025,928	687,879	0	0	0	0	276,894	2,990,701
Tipple	2,025,928	687,879	0	0	0	0	276,894	2,990,701
Production Workers	5,468	2,280	676	403	25	934	3,903	13,689
Surface	995	465	110	116	5	62	1,491	3,244
Auger	30	9	7	25	0	0	118	189
Strip	280	229	47	43	0	15	1,156	1,770
Tipple	318	60	12	7	0	17	115	529
Truck	367	167	44	41	5	30	102	756
Underground	4,473	1,815	566	287	20	872	2,412	10,445
Tipple	1,447	889	235	103	0	525	916	4,115
Truck	3,026	926	331	184	20	347	1,496	6,330
Production Wages	$129,276,894	$56,687,003	$16,564,440	$7,405,419	$200,044	$15,132,272	$100,701,909	$325,967,981
Auger	349,229	129,102	54,956	467,443	0	0	1,702,680	2,703,410
Strip	4,484,452	4,567,330	380,692	400,415	[illegible]	525,980	26,923,349	37,282,218
Tipple	62,704,178	26,907,499	8,161,733	3,342,827	0	7,897,455	34,370,963	143,384,655
Truck	61,739,035	25,083,072	7,967,059	3,194,734	200,044	6,708,837	37,704,917	142,597,698
Office Workers	201	76	23	32	1	39	[illegible]	963
Auger	5	0	0	2	0	0	[illegible]	10
Strip	28	10	2	11	0	5	183	239
Tipple	35	21	7	3	0	16	31	113
Truck	133	45	14	16	1	18	374	601
Office Wages	$ 3,439,363	$ 1,409,034	$ 386,554	$ 375,412	$ 4,800	$ 1,187,445	$ 27,038,665	$ 33,841,273
Auger	35,220	0	0	14,428	0	0	14,778	64,426
Strip	493,272	199,234	8,000	103,600	0	241,119	4,328,680	5,373,905
Tipple	1,015,296	407,309	188,857	113,857	0	696,035	811,684	3,233,038
Truck	1,895,575	802,491	189,697	143,527	4,800	250,291	21,883,523	25,169,904
Number of Mines	310	107	33	38	6	48	199	741
Auger	11	6	5	2	0	1	22	47
Strip	27	21	5	8	2	2	96	161
Tipple	27	10	1	2	0	7	10	57
Truck	245	70	22	26	4	38	71	476

SUMMARY OF COAL MINING IN VIRGINIA
Title I 1984

	Buchanan	Dickenson	Lee	Russell	Scott	Tazewell	Wise	Total
Production Workers	1,399	355	139	170	6	80	714	2,863
Surface	284	120	61	94	0	12	453	1,024
Auger	30	9	7	25	0	0	20	91
Strip	106	71	32	43	0	0	403	655
Tipple	6	0	0	0	0	5	0	11
Truck	142	40	22	26	0	7	30	267
Underground	1,115	235	78	76	6	68	261	1,839
Tipple	13	0	0	0	0	9	0	22
Truck	1,102	235	78	76	6	59	261	1,817
Production Wages	$20,531,378	$6,720,408	$1,702,709	$1,669,893	$13,728	$1,324,298	$15,063,703	$47,026,117
Auger	349,229	129,102	54,956	467,443	0	0	144,299	1,145,029
Strip	1,396,023	1,186,570	258,795	400,415	0	0	9,933,778	13,175,581
Tipple	630,261	0	0	0	0	443,327	0	1,073,588
Truck	18,155,865	5,404,736	1,388,958	802,035	13,728	880,971	4,985,626	31,631,919
Tonnage	6,074,703	1,982,117	365,292	308,488	7,053	174,792	4,145,317	13,057,762
Tons Mined By:								
Machine	3,018,487	941,355	178,868	240,020	7,053	130,368	3,178,072	7,694,223
Auger	96,797	15,881	10,607	114,833	0	0	96,964	335,082
Strip	667,992	338,588	47,415	55,739	4,277	0	2,847,050	3,961,061
Truck	2,253,698	586,886	120,846	69,448	2,776	130,368	234,058	3,398,080
Continuous Miner	1,022,959	352,883	186,344	0	0	44,424	690,351	2,296,961
Tipple	134	0	0	0	0	1,428	0	1,562
Truck	1,022,825	352,883	186,344	0	0	42,996	690,351	2,295,399
Hand	7,329	0	80	68,468	0	0	0	75,877
Truck	7,329	0	80	68,468	0	0	0	75,877
Longwall	2,025,928	687,879	0	0	0	0	276,894	2,990,701
Tipple	2,025,928	687,879	0	0	0	0	276,894	2,990,701
Number of Mines	233	58	24	28	5	32	114	494
Auger	11	6	5	2	0	0	18	42
Strip	21	17	3	6	2	0	63	112
Tipple	14	0	0	0	0	4	2	20
Truck	187	35	16	20	3	28	31	320

SUMMARY OF COAL MINING IN VIRGINIA
Title II 1984

	Buchanan	Dickenson	Lee	Russell	Scott	Tazewell	Wise	Total
Production Workers	4,069	1,925	537	233	19	854	3,189	10,826
Surface	711	345	49	22	5	50	1,038	2,220
Auger	0	0	0	0	0	0	98	98
Strip	174	158	15	0	0	15	753	1,115
Tipple	312	60	12	7	0	12	115	518
Truck	225	127	22	15	5	23	72	489
Underground	3,358	1,580	488	211	14	804	2,151	8,606
Tipple	1,434	889	235	103	0	516	916	4,093
Truck	1,924	691	253	108	14	288	1,235	4,513
Production Wages	$108,745,516	$49,966,595	$14,861,731	$5,735,526	$186,316	$13,807,974	$85,638,206	$278,941,864
Auger	0	0	0	0	0	0	1,558,381	1,558,381
Strip	3,088,429	3,380,760	121,897	0	0	525,980	16,989,571	24,106,637
Tipple	62,073,917	26,907,499	8,161,733	3,342,827	0	7,454,128	34,370,963	142,311,067
Truck	43,583,170	19,678,336	6,578,101	2,392,699	186,316	5,827,866	32,719,291	110,965,779
Tonnage	9,433,908	5,166,782	1,678,395	875,053	12,087	2,055,253	9,145,513	28,366,991
Tons Mined By:								
Machine	3,435,837	1,830,492	194,771	497,012	0	761,181	3,005,355	9,724,648
Auger	0	0	0	0	0	0	14,694	16,694
Strip	154,539	588,457	18,982	0	0	64,098	2,172,358	2,998,434
Tipple	204,129	0	0	0	0	0	0	204,129
Truck	3,077,169	1,242,035	175,789	497,012	0	697,083	818,303	6,507,391
Continuous Miner	5,998,071	3,336,290	1,483,624	378,041	12,087	1,294,072	6,140,158	18,642,343
Tipple	1,561,917	1,821,184	741,778	378,041	0	798,008	1,911,180	7,212,108
Truck	4,436,154	1,515,106	741,846	0	12,087	496,064	4,228,978	11,430,235
Number of Mines	77	49	9	10	1	16	85	247
Auger	0	0	0	0	0	1	4	5
Strip	6	4	2	2	0	2	33	49
Tipple	13	10	1	2	0	3	8	37
Truck	58	35	6	6	1	10	40	156

SUMMARY OF COAL MINING IN VIRGINIA
BY COAL SEAMS
1984

	Buchanan	Dickenson	Lee	Russell	Scott	Tazewell	Wise
Big Fork	0	0	0	32,103	0	0	0
Blair	1,690,170	10,839	0	0	0	0	930,082
Burton's Ford	0	0	0	62	0	0	0
Campbell Creek	61,885	0	0	0	0	0	0
Cedar Grove	71,152	0	0	0	0	0	0
Clintwood	154,760	380,669	0	0	0	0	2,170,626
Cove Creek	0	0	0	0	12,087		
Dorchester	383,802	115,662	300	0	0	0	1,355,532
Eagan	0	0	0	0	7,053	0	0
Eagle	825,010	6,093	0	0	0	0	0
Greasy Creek	0	0	0	0	0	701,443	0
Hagy	1,581,504	8,373	0	0	0	0	0
Harlan	0	0	269,267	0	0	0	0
High Splint	0	0	127,637	0	0	0	608,086
Imboden	0	320,180	37,836	0	0	0	865,605
Jawbone	2,131,565	996,898	0	447,757	0	0	270,081
Kelly	0	0	0	0	0	0	1,038,985
Kennedy	1,921,373	0	0	47,803	0	0	0
Kirk	0	0	18,982	0	0	0	0
Low Splint	0	0	117,243	0	0	0	674,888
Lower Banner	77,771	1,142,334	0	115,035	0	0	1,886
Lower Horsepen	0	0	0	0	0	4,604	0
Lower Seaboard	0	0	0	0	0	798,008	0
Lower St. Charles	0	0	48,501	0	0	0	0
Lyons	0	41,012	0	0	0	0	343,244
Middle Horsepen	0	0	0	0	0	64,098	0
Middle Seaboard	0	0	0	0	0	13,357	0
Morris	0	0	0	0	0	0	212,809
Norton	0	11,115	0	0	0	0	871,599
Pardee	0	0	167,053	0	0	0	1,235,238
Phillips	0	0	0	0	0	0	282
Pinhook	0	0	0	0	0	0	13,664
Pocahontas #3	2,876,269	0	0	0	0	58,497	0
Pocahontas #5	0	0	0	0	0	140,940	0
Raven	698,704	734,462	0	231,628	0	24,810	183,373
Rocky Fork	0	0	0	0	0	0	29,510
Splashdam	2,073,212	588,724	0	0	0	0	141,590
Taggart	0	0	783,409	0	0	0	1,265,974
Taggart Marker	0	0	0	0	0	0	157,436
Tiller	961,434	207,945	0	265,880	0	59,624	13,743
Upper Banner	0	2,584,593	0	43,273	0	0	539,695
Upper Horsepen	0	0	0	0	0	336,866	0
Upper Seaboard	0	0	0	0	0	27,798	0
Upper Standiford	0	0	0	0	0	0	366,902
Wax	0	0	473,459	0	0	0	0
Total	15,508,611	7,148,899	2,043,687	1,183,541	19,140	2,230,045	13,290,830

SUMMARY OF METAL MINING,
MINING AND QUARRYING OF NONMETALLIC MINERALS
1984

	Tonnage	Office Workers	Office Hours	Office Wages	Production Workers Plant	Production Workers Quarry	Total Man-Hours	Total Wages	Capital Expenditures
Apolite	336,197	10	19,850	226,058	21	20	88,233	711,655	35,000
Granite	18,352,836	99	270,246	2,156,863	293	156	1,228,255	8,984,467	4,883,570
Greenstone	656,517	4	8,640	29,319	7	7	37,107	371,081	535,147
Gypsum	416,808	3	6,240	74,624	0	41	90,929	709,922	839,102
Kyanite	371,640	9	25,285	228,154	85	20	239,182	2,159,579	684,302
Limestone	15,991,708	254	509,460	5,559,911	731	478	2,415,238	19,473,927	5,052,927
Sand	6,739,080	46	46,990	379,087	43	171	224,718	2,045,036	652,116
Sand & Gravel	9,073,530	88	200,667	1,588,928	209	155	782,617	6,171,805	2,869,392
Sandstone	434,904	3	6,883	54,044	10	11	40,358	322,499	60,000
Shale	553,651	50	115,067	958,619	317	19	703,527	4,048,337	263,358
Slate	309,667	25	90,207	528,109	231	50	472,343	3,106,886	662,882
Soapstone	1,927	2	3,840	2,775	4	0	1,920	13,081	0
Traprock	5,271,078	39	106,479	1,020,458	80	78	394,287	3,667,241	904,777
Vermiculite	41,000	4	11,520	150,000	20	4	47,412	399,000	294,000
Miscellaneous	14,343,438	90	171,786	1,925,272	321	297	1,157,135	8,879,591	2,822,991
TOTAL	72,893,981	726	1,593,160	14,882,221	2,372	1,507	7,923,261	61,064,107	20,559,564

ACCIDENT SUMMARY FOR METAL/NONMETAL MINING
1984

Commodity	Fatalities	Injuries	Lost Work Days	Total Hours	Frequency Rate	Severity Rate
Apolite	0	0	0	88,233	0	0
Granite	0	4	297	1,228,255	.65	48.36
Greenstone	0	0	0	37,107	0	0
Gypsum	0	0	0	90,929	0	0
Kyanite	0	7	24	239,182	5.85	20.07
Limestone	1	19	223	2,415,238	1.57	18.47
Sand	0	0	0	224,718	0	0
Sand and Gravel	0	7	195	782,617	1.79	49.83
Sandstone	0	0	0	40,358	0	0
Shale	0	0	0	703,527	0	0
Slate	0	1	30	472,343	.42	12.70
Soapstone	0	0	0	1,920	0	0
Traprock	0	1	1	394,287	.51	.51
Vermiculite	0	0	0	47,412	0	0
Miscellaneous	0	6	165	1,157,135	1.04	28.52
Totals	1	45	935	7,923,261	1.14	23.74

Frequency and Severity Rates are calculated as follows:

F= [(Number of Injuries x 200,000 hours] /(Total Man Hours)

S= [(Number of Lost Work Days) x 200,000 hours] /(Total Man Hours)

ACCIDENT SUMMARY
1984

	BUCHANAN	DICKENSON	LEE	RUSSELL	SCOTT	TAZEWELL	WISE
Accidents	163	155	17	12	0	40	194
Fatalities	6	5	0	0	0	1	0
Injuries	157	150	17	12	0	39	194
Lost Work Days	5,067	3,957	653	323	0	1,461	5,225
Total Hours	8,860,515	3,569,777	1,067,285	460,506	19,300	1,082,190	6,449,659
Frequency Rate	3.54	8.40	3.19	5.21	0	7.21	6.02
Severity Rate	114.37	221.69	122.37	140.28	0	270.01	162.02

Frequency and Severity Rates are calculated as follows:

F= [(Number of Injuries) x 200,000 hours] /(Total Man Hours)

S= [(Number of Lost Work Days) x 200,000 hours] /(Total Man Hours)

The 1984 Virginia Frequency Rate is: 5.29

The 1984 Virginia Severity Rate is: 155.15

FATAL ACCIDENTS IN COAL MINES, VIRGINIA

1984

TOTAL	12
Age:	
20 to 30	6
31 to 40	5
51 to 60	1
Family Status:	
Married	11
Single	1
Total Years Mining Experience:	
One year to ten years	8
Ten years and over	4
Experience with Present Company:	
Less than one month and not more than three months	1
Three months to two years	3
Two years to five years	2
Five years to fifteen years	4
More than 15 years	2
Time of Accident:	
7 am to 3 pm	5
3 pm to 11 pm	5
11 pm to 7 am	2
Cause:	
Haulage	3
Machinery	2
Roof Fall	5
Slip/Fall of Person	2
Occupation:	
Continuous Miner Operator - Helper	1
Iron Worker	1
Loading Machine Helper	1
Longwall Jack Operator	1
Mine Foreman	1
Outside Supply Man	1
Roof Bolter Operator	3
Roof Bolter Operator - Helper	1
Section Foreman	2

VIRGINIA DEPARTMENT OF LABOR AND INDUSTRY

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___ Poster: Safety and Health Protection on the Job ____
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